TOOLS & TOOL KITS (15-)

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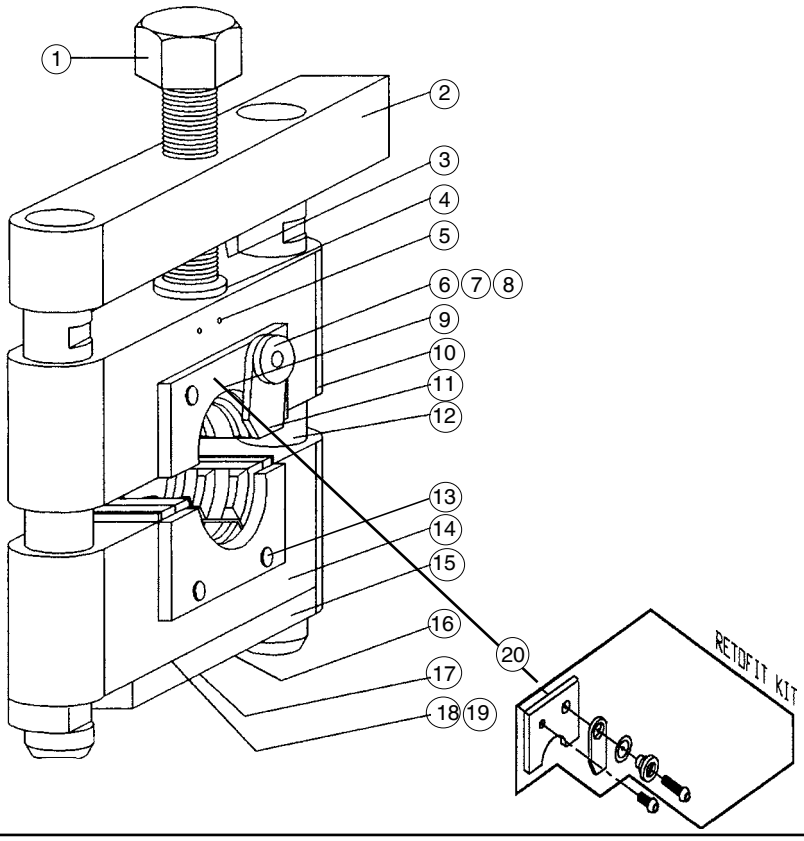
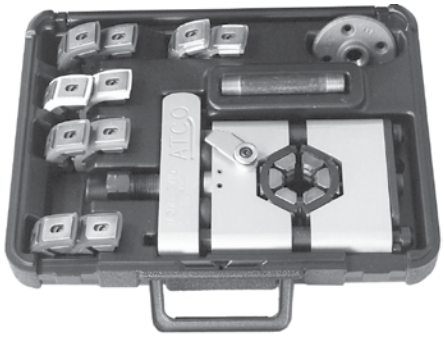


NSS = Not Sold Separately

15-3200A
BUBBLE CRIMPER REPAIR PARTS LIST

	Part#	Description
1	**15-3205**	Actuator Screw
2	**15-3201**	Actuator Bar
3	NSS	Rubber Bumper
4	NSS	Thrust Bushing
5	NSS	3/16" x 1 Roll Pin (2 per box)
6	NSS	Locator Bushing
7	NSS	Curved Disc Spring
8	NSS	1/4"-20 x 1 Button Screw
9	NSS	Die Guide Block Locator
10	NSS	Movable Die Holder
11	NSS	Locator Flag
12	NSS	Strain Rod (2 per box)
13	**15-4877**	1/4"-20 x 5/8" Button Head Screw
14	NSS	Removable Die Holder
15	NSS	Latch Plate
16	NSS	3/16" x 1/2" Roll Pin
17	NSS	Lock Screw
18	NSS	Compression Spring
19	**15-4876**	7/16" Ball Bearing
	15-3215	Woodruff Key (2 per box)
20	**15-3220**	Retrofit Kit for Flag* *Permits proper location of crimp shell before crimping.

15-3200A - New Style Beadlock Crimping Tool



15-3200A
COMPLETE KIT for MANUAL or AIR IMPACT OPERATION

- Designed Specifically for use with Beadlock Fittings
- Portable, Hand Operation
- OE Style Triple Bubble Crimp
- Heavy Duty Construction for use with Air Impact Wrench
- Color Coded, Urethane Encased Dies
- Easy Changeover From Size to Size
- Crimps 2 Braid Rubber or Nylon Barrier Hose
- Standard Die Sizes - #6, #8, #10, #12
- Reduced Die Sizes - #6, #8, #10, #12
- Capable of Crimping Under-Hood Applications
- Light Weight for Easy Handling
- Unit can be Bench Mounted
- Shipped in Custom Carrying Case

Bubble Crimper Die Carriers

NOT INTERCHANGEABLE WITH OLD STYLE CRIMPER.

15-3200A NEW Style Crimp Dies *(set 2)*

Die Size	ID Stamp	Part No.
#6	6-8R 655	**15-3206A**
#6R	6R 556	**15-3256A**
#8	8 830	**15-3208A**
#8R	6-8R 655	**15-3206A**
#10R	10R 742	**15-3210A**
#12	12 1015	**15-3257A**
#12R	10-12R 897	**15-3212A**

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Bubble Crimper Die Carriers
For OLD and NEW STYLE CRIMPERS

Rubber Die Carriers ***(set 2)***

Die Size	Color	Stamp	Part No.
#6	Black	fits both	**15-3207**
#6R	Brown	fits old only	NLA
#6R	Red	fits new only	**15-3258**
#8	Blue	fits both	**15-3209**
#8R	Purple	fits old only	NLA
#8R	Black	fits new only	**15-3207**
#10	Green	fits both	**15-3211**
#10R	Almond	fits both	**15-3259**
#12	Clear	fits both	**15-3213**
#12R	Green	fits old only	NLA
#12R	Green	fits new only	**15-3211**

Bubble Crimp Tool Accessory

15-3236
Model #15-3200A crimper with an air/hydraulic pump controlled by a foot switch. Includes dies for standard barrier hose.

Special order only!

AEROQUIP E-Z CLIP SYSTEM

15-3013
E-Z CLIP SYSTEM
ASSORTMENT CASE
Contains:
- (20) Clips..... **09-1106E**
- (20) Clips..... **09-1108E**
- (20) Clips..... **09-1110E**
- (20) Clips..... **09-1112E**
- (10) Cages **09-1006E**
- (10) Cages **09-1008E**
- (10) Cages **09-1010E**
- (10) Cages **09-1012E**
- (1) Conn. Tool **15-3242**
- (1) Hose Cutter ... **15-3008**
- (1) Repl. Blade **15-3009**

15-3015E
E-Z CLIP FITTING STARTER KIT
Kit contains a large assortment of fittings, 50 ft. roll hose and includes P/N15-3013 Assortment.

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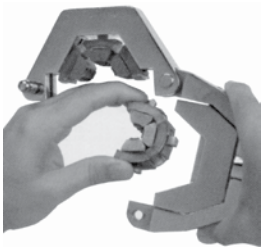
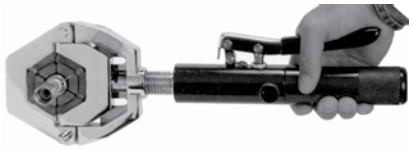
Hydra-Krimp Bead Crimping Systems





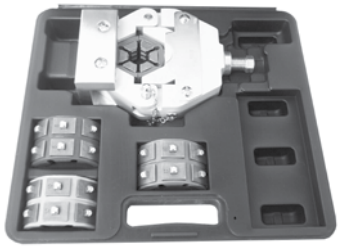
15-3255
The new patented "Hydra-Krimp" makes crimping barbed and beaded fittings easy. The lightweight hand-held hydraulic press is very portable and ideal for shop and field applications. The kit comes with a complete set of dies covering hose sizes #6, #8, #10, #12 and reduced barrier #6, #8, #10, #12. The dies snap quickly into the press fixture requiring no pins or screws. A custom molded case is included in the kit.

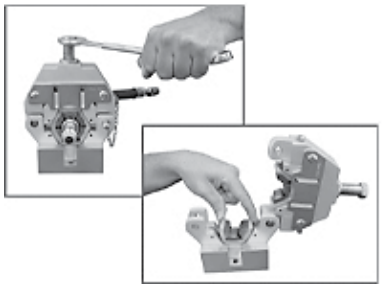
REPLACEMENT CRIMP DIES

	Standard	Die Carrier
#6	**15-4986**	**15-4986C** purple
#8	**15-4987**	**15-4987C** red
#10	**15-4988**	**15-4988C** yellow
#12	**15-4989**	**15-4989C** green
	2 per box	

	Reduced Diameter	Die Carrier
#6	**15-4990**	**15-4990C** black
#8	**15-4986**	(uses standard #6 die)
#10	**15-4991**	**15-4991C** orange
#12	**15-4992**	**15-4992C** blue
	2 per box	

Mastercool Manual Style A/C Hose Crimper





15-3256
MASTERCOOL'S NEW MANUAL STYLE A/C HOSE CRIMPER KIT
Dies snap quickly into place requiring no pins or screws. The unit can be easily mounted to a bench using the holding fixture or held securely in a vice. This kit comes with a complete set of dies covering standard hose sizes #6, #8, #10, #12.

Replacement Crimp Dies

	Standard	*Reduced Diameter
#6	**15-4986**	**15-4990**
#8	**15-4987**	**15-4986** (uses standard #6 die)
#10	**15-4988**	**15-4991**
#12	**15-4989**	**15-4992**
	2 per box	**Must be ordered separately!*

Hose Cutters and Crimp Pliers

15-3008
HAND-HELD HOSE CUTTER
Cuts conventional & barrier style hose up to 1-1/2" O.D.

15-3009 .....Replacement Blade

AEROQUIP E-Z CLIP HOSE PLIERS
15-3242 .....for #6, #8, #10, #12 fittings
15-3262 .....for #16 fittings only

15-3243BC
BURGAFLEX CLIP PLIERS
All sizes #6 thru #14

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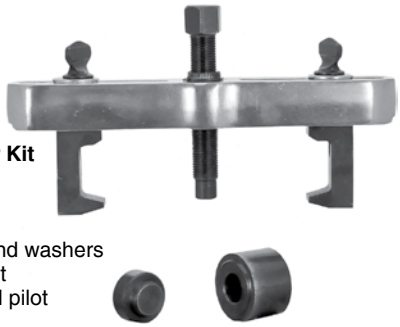
Clutch Plate Removal Tools

15-3020
Clutch Feeler Gauge Set



15-3027
Universal Pulley Puller Kit
Kit contains:
- Puller arbor
- Pulley removal jaws
- Set of thumb screws and washers
- GM pulley removal pilot
- GM pulley hub removal pilot
- GM puller body

15-3030
Clutch Plate Installer
GM A6

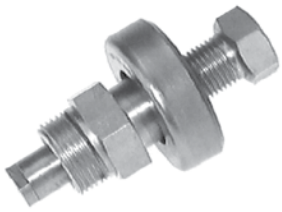
15-3031
Clutch Plate Remover
FORD FS6, Denso 10PA15/17C,
CHRYSLER C171/A590

15-3033
Sanden 505/507/508/510/575/708/709

15-3034
Clutch Holder

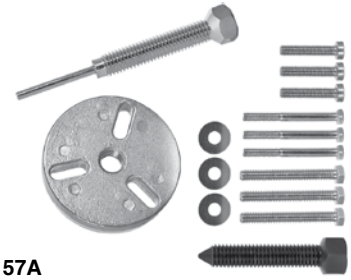
15-3036
Universal Clutch Pulley Puller Kit
Kit contains:
- Rotor and bearing pilot
- Universal puller body
- Universal puller arbor
- Universal remover jaws

15-3038
Internal Retaining Ring Pliers



15-3109
GM DA6/HR6/V5

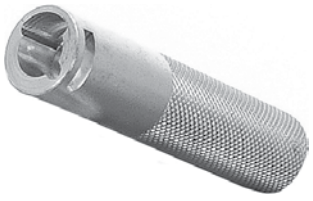
15-3122
Lip Seal Seat Remover / Installer Tool
for Sanden SD709, SD7H15.



15-3157A
Deep Reach Type Hub Remover
for Seltec/Valeo, and TM13-31 models.

15-3158
GM Compressor/Clutch Turning Tool
Allows for the application of force to the hub, to rotate compressor.
Great for GMC HT6 Compressors!

15-3159
Oval Switch Puller
Used on GM vehicles with
Denso 10S17F / 10S20F compressor
w/oval head, switch in rear head.



15-3160
Round Switch Puller
Used on GM vehicles with
Denso 10S17F / 10S20F compressor
w/round head, switch in rear head.

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Clutch Plate Removal Tools

15-3260
Deluxe Hub Puller / Installer Kit

- Kit contains a complete offering of A/C compressor clutch hub pullers and installers for GM, Ford, Chrysler and Imports.
- Includes a compressor identification chart and comes in a custom molded case.

Shaft Seal Sets & Tools

15-3064
Seltec/Zexel Diesel-Kiki Seal Set
All the tools necessary to replace seals on Zexel/Diesel-Kiki DKS12, DKS13, and DKS15 compressors.
Used with Clutch Holding Tool (P/N 15-3034).

CONTAINS:
- Drive Plate Remover
- Drive Plate Installer
- Retaining Ring Installer
- Pulley Puller Pilot (P/N 15-3097)
- Seal Remover & Installer (P/N 15-3114)

15-3066
Master Seal Service Tool Set
Includes the tools necessary to service seals on all GM, Nippondenso, York Style, Tecumseh, and Sanden compressors.

15-3023
T/CCI, York Style
Oil Level Dipstick

15-3084
SANDEN
Oil Level Dipstick

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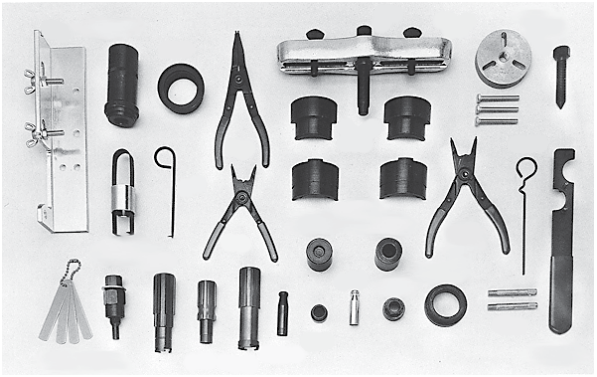
Tools & Tool Sets

SANDEN TOOLS

Part No.	Description	SD508	SD510	SD709	SD5H14	SD7H15
15-3033	Clutch Plate Puller	X	X	X	X	X
15-3035	Clutch Holder	X	X	X	X	X
15-3038	Internal Snap Ring Pliers	X	X	X	X	X
15-3123	Clutch Plate Installer	X	X		X	
15-3076	Seal Remover/Installer	X	X	X	X	X
15-3077	Seal Sleeve Protector	X	X	X	X	X
15-3084	Oil Lever Checker Dipstick	X	X	X	X	X
15-3085	Pulley Removal Jaws	X	X	X	X	X
15-3113	Clutch Plate Installer			X		X
15-3122	Lip Seal Seat Remover/Installer			X		X



15-3140
Sanden Compressor Clutch Tool Kit
(Essential tools only for removing and installing clutches)

SELTEC / VALEO (TAMA / ZEXEL / DIESEL-KIKI) COMPRESSOR TOOLS

Part No.	Description	DKS12 TM12	DKS13 TM13	DKS15 TM15	DKS16 TM16	DKS26/31 TM26/31
15-3020	**Shim Gauge**	X	X	X	X	X
15-3034	**Clutch Holding Tool**	X	X	X	X	X
15-3038	**Internal Snap Ring Pliers**	X	X	X	X	X
15-3157A	**Clutch End Plate Remover**	X	X	X	X	X
NSS	**Seal Remover/Installer**	X	X	X	X	
NSS	**Pulley Removal Jaws**		X	X	X	
15-3027	**Universal Pulley Puller**	X	X	X	X	
NSS	**Pulley Pilot**		X	X	X	
NSS	**Bearing Pulley Installer**		X	X	X	

NSS = Not Sold Separately

15-3139A
Seltec/Valeo Compressor Clutch Tool Kit
For TM13-31 compressors.
(Essential tools only for removing and installing clutches)

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Compressor / Tool Chart

Compressor Type	Clutch Hub		Clutch Pulley		Clutch Coil		Shaft Seal		Clutch Bearing	
	Remover	Installer	Remover	Installer	Remover	Installer	Remover	Installer	Remover	Installer
GM A6	15-3030	15-3030	15-3027 (1) 15-3029 (1)	NSS	NR	NR	15-3034 (1)	15-3048 (1)	NSS	NSS
GM R4	15-3030	15-3030	NSS	NSS	NSS	NSS	15-3034 (1)	15-3048 (1)	NSS	NSS
GM DA6/HR6	15-3109	15-3110	15-3027	NSS	15-3027 (1) 15-3029 (1)	NSS	15-3058 (3) 15-3034 (1)	15-3058 (3)	NSS	NSS
GM V5	15-3109	15-3110 15-3029 (1)	15-3027 (1)	NSS 15-3029 (1)	15-3027 (1)	NSS 15-3034 (1)	15-3058 (3)	15-3058 (3)	NSS	NSS
Chrysler C171/A590	15-3031	15-3042	15-3027 (1)	NSS	NR	NR	15-3034	NSS	NSS	NSS
Ford FS6	15-3030	15-3042 OR 15-3030 (2)	15-3027 (1)	NSS	NR	NR	15-3034	NSS	NSS	NSS
Ford FX15/FS10	NR	NR	15-3027 (1)	NSS	15-3027 (1)	NSS	15-3141	NSS	—	—
Nippondenso 10PA15/17C	15-3031	15-3042	15-3027 (1)	NSS	NR	NR	NSS	NSS	NSS	NSS
Sanden SD508/ 510/708/709	15-3033	15-3113 (4)	15-3087 (1) 15-3085 (1) 15-3027 (1)	NSS	NR	NR NSS	NSS	NSS	NSS	NSS
CCI/York/ Tecumseh	NSS	NR	NR	NR	NR	NR	NR	NR	NSS	NSS
Seltec/TAMA Diesel-Kiki	15-3157A	NR	15-3085 (1) 15-3027 (1)	NSS	NR	NR	15-3034	NSS	NSS	NSS

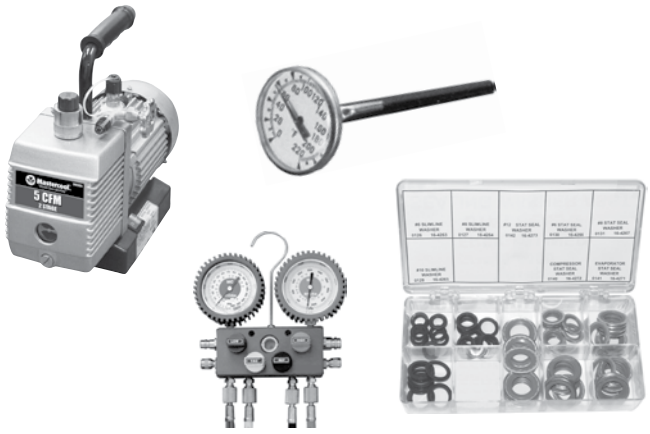
Note: This chart is a general guide only and may not list all individual tools needed to perform the service listed. In addition to the tools listed in this chart, some basic hand tools are required. Clutch hub and/or pulley tools may be required in addition to shaft seal tools during shaft seal replacement.

(1) All tools required to perform service
(2) With aftermarket Warner clutch only; (Will not work with O.E. clutch)
(3) Complete packaged Shaft Seal service set
(4) Used on SD708 & SD709 models only

NR = No Required tool to perform service
NSS = Not Sold Separately

Have Questions About an A/C Tool?

Call our Customer Service Department!



SERVICE ITEMS & EQUIPMENT (16-)

ACCESSORIES 543
- Accessories / Service Items
- Can Taps (Dispensing Valves)
- Fin Comb (Cond. & Evap.)
- Goggles
- Service Manual
- Service Valve Wrench
- Tape

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ADAPTER KITS & SETS 546
CHARGING HOSE 549
CHARGING DEPRESSORS/SEALS 550
CHARGING MANIFOLDS 548
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COMPRESSOR GUARD, SLEEVES 551
COMPRESSOR FILTER SCREEN KITS 551
COUPLERS (CHARGING HOSES) 545
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FLUSH GUNS / EQUIPMENT 544
GASKETS, O-RINGS 556
GAUGES (MANIFOLD GAUGES) 549
LEAK DETECTORS & ACCESSORIES 552
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ROBINAIR ACCESSORIES 550
SCHRADER CORES & REMOVERS 570
SERVICE PORT CAPS 569
SERVICE MANUAL 543
SERVICE PORT TOOLS (Brush,Reamer, Sockets) 570
THERMOMETERS 544
VACUUM PUMP FITTINGS, OIL 573
VACUUM PUMPS 573
VALVE CORES 570
VAPOR VUE CHARGING DEVICE 547

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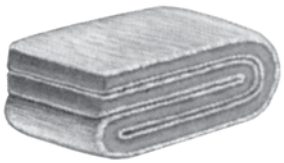
Accessories / Service Items

15-3008
Handi-Cut A/C Hose Cutter
Makes quick clean cuts.
Cuts R12, R134a, barrier and non-barrier hoses up to 1-1/2" OD
15-3009 - Replacement Blade

15-3010
Orifice Tube Extractor Kit
Easily removes damaged orifice tubes in Ford & GM vehicles.

16-3007
A/C Service Tape
30 ft. roll

16-3019
A/C Ratchet
Reversible 9/16", 1/2" Hex and 1/4", 3/16" Square.

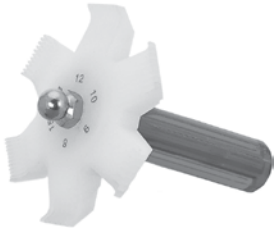


16-3174
Permagum (DumDum)
Used to seal holes in firewall
(1 lb. roll)

16-3406
R134a Can Tap Valve
Screw on design. Gasket assures leak proof operation.
Built in safety check valve.
Full grip valve handle.
16-3514.....Seals *(Box 10)*

16-3430
R134a Recharge Kit
Screw on design with hose and quick coupler. Built in safety check valve.

16-3471
3-In-1 Can Tap Valve
Use on: R12, R134a and Oil Charge Cans
16-3513.....Seals *(Box 10)*



16-4090
Coil Fin Comb
Cleans and straightens evaporator and condenser coils. Six sided head for 6, 8, 10, 12, 14, and 15 fins per inch applications.

16-5015
UV Safety Goggles
These are a must for protection against ultraviolet light when using UV light for leak detection.

- Chevrolet/GMC
- Ford
- Freightliner
- International
- Isuzu
- Iveco
- Kenworth
- Mack
- Mitsubishi
- Nissan
- Peterbilt
- Volvo GM

16-3028B
A/C Service Manual
Covers service procedures for R12 / R134a H.D. Trucks.

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Accessories / Service Items (continued)

Flushing Components (for A/C Flushes: see page 574)

16-3071
System Flush Kit
Includes flush gun, hose, canister, and canister adapter. Uses shop air to propel flush solvent through each component.

16-3061
Flush Kit w/flush solvent, quart

16-3470
Flush Kit (R12/R134a systems with all oil types)
Contains: Gun, Hose, 1 Gallon of Flush Solvent and Complete Instructions. Adapts to use with all quick coupler types

16-3073
Replacement Flush Probe w/Tip

16-3082
Flush Capturing Unit
• Unit gives technician the opportunity to analyze flush debris as it is being removed.
• Collects flush material for reuse or disposal.

Thermometers

16-3031
Dial Thermometer
1-3/8" Face
Range: -40° to 160° F

16-3033 .....1" Face
16-3056 .....1-3/4" Face
Dial Thermometer
Range: 0° to 220° F

16-3135
Digital Thermometer
1" Dial Size, Battery Operated
Range: -58° to 320° F

16-3197
Infrared Thermometer w/Target Laser
7/8" Digital Display, Battery Operated
Range: -4° to 932° F
Ratio: 8:1

16-3198
Dual Temp Infrared w/Contact Thermo.
7/8" Digital Display, Battery Operated
Range: -76° to 1400° F
Ratio: 30:1

16-3460
Electronic Temperature Meter
For measuring temperature differences.

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Adapters (Charging) & Couplers

16-3005
GM High Side Service Port
1/4" x 3/16" Female

16-3010
Manual Control Valve
1/4" FFL x 1/4" MFL

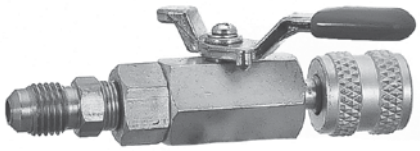
90° GM High Side Service Port

16-3015
90° GM High Side Service Port
1/4" x 1/4" Female

16-3041
90° GM High Side Service Port
1/4" x 3/16" Female

Quick Seal Fitting Adapter
Anti-blow back fitting for charging hoses.

16-3078	1/4" MFL x 1/4" FFL
16-3077	1/4" MFL x 3/16" FFL
16-3416	1/2" ACME x 1/2" ACME
16-3053	Replacement Seals (10)



16-3118
Manual Shut-Off Ball Valve - (R12)
1/4" x 1/4" Swivel Ball less hose

16-3072
Charging Adapter
GM 6" Flexible 1/4" x 3/16"

16-3075
Charging Adapter
Ford 1/8" High Side Adapter

16-3079
Charging Adapter
6" Flexible 1/4" x 1/4"

16-3106 .....1/4" x 1/4"
90° Manual Shut Off Valve - R12
Manual control valve controls the flow of refrigerant, meeting EPA requirements to contain R12. Attaches to charging hose end.

16-3182 .....1/4" x 1/4"
16-3184 .....1/4" x 3/16"
Straight Manual Shut Off Valve - R12
1/4" turn ball valve controls the flow of refrigerant. Anti-Blowback fitting automatically shuts off high side charging hose when disconnected from system; no refrigerant loss or finger burns.

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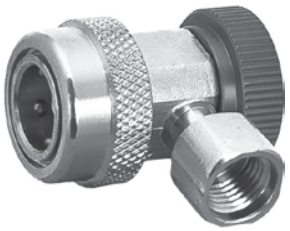
Adapters (Charging) & Couplers (continued)



Gasket/O-Ring
Low Side **16-3427**
High Side **16-3428**

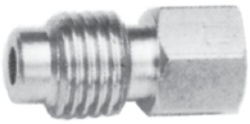
16-3408 - 13mm Low Side (Blue) Charging Coupler for R134a
16-3409 - 16mm HighSide (Red) Charging Coupler for R134a
(Required in order to hook up R134a hoses to system)

16mm x 1/4" Male

13mm x 1/4" Male

16-3410
R134a Conversion Kit
Convert R12 manifold set to R134a

1/2" ACME 1/4" Female



16-3414
Vacuum Pump Conversion Fitting Retro-Adapter
Convert R12 pumps to R134a

R12

R134a

16-3415
Vacuum Pump Conversion Fitting Retro-Adapter
Convert R12 pumps to R134a

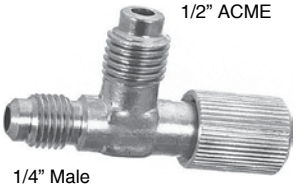
16-3423 - High Side Coupler - Red
16-3424 - Low Side Coupler - Blue
Unique swivel design enables user to access all service ports even in the tightest applications

Gasket/O-Ring
Low Side **16-3487**
High Side **16-3488**

Coupler Repair Components

16-3427 ..... 5 guides/5 o'rings for P/N 16-3409
16-3428 ..... 5 guides/5 o'rings for P/N 16-3408
16-3487 ..... 10 o'rings for P/N 16-3423
16-3488 ..... 10 o'rings for P/N 16-3424

1/2" ACME

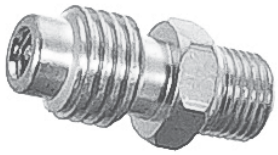


1/4" Male

1/4" Female

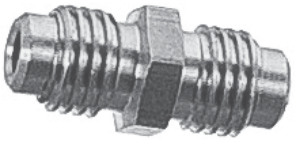
16-3449
Vacuum Pump Conversion Fitting
"T" Style Retro-Adapter to convert R12 pumps to R134a

Hose End



Manifold End

16-3465
Access Service Valve
1/2" ACME-M x 1/8" NPT



16-3477
Adapter Fitting
For attaching two yellow R134a hoses together.
1/2" ACME-M x
1/2" ACME-M union

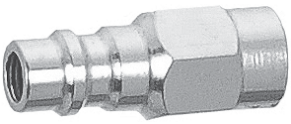
R12

Gasket #16-3514

R134a

16-3515
Adapter Coupler R134a
1/4" Male Flare (7/16" -20) x
1/2" ACME Female

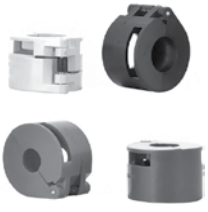
13mm Coupler



Gasket #16-3514

1/2" ACME

16-3516
Refrigerant Tank Adapter
R134a (low side)
13 mm x 1/2" ACME Female



16-4080
Spring Lock Disconnect Tool Set
Set includes four sizes:
3/8", 1/2", 5/8", and 3/4"

16-3086
Deluxe A/C Service Repair Kit
Replacement gaskets, depressors, and o'rings for charging hoses and adapters.
Kit Includes:

Part No.
16-3037 ....1/4" Gasket (10 pcs)
16-3038 ....1/4" Depressor (10 pcs)
16-3428 ....O'Ring for #16-3408 (10 pcs)
16-3427 ....O'Ring for #16-3409 (10 pcs)
16-3437 ....Gasket for R134a hose (10 pcs)
16-3441 ....O'Ring for R134a hose (10 pcs)
16-3436 ....Gasket for #16-3416 (10 pcs)
16-3126 ....Gasket, R12 Shut-off vlv (10 pcs)

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Charging Service Equipment

16-3167A
Accu-Charge Electronic Refrigerant Scale
Features include 15 minute auto-off function, memory function saves last weight when unit shuts off, 176 pound capacity, 60 hour performance on one 9V alkaline battery, compact 9”x9” platform, carrying case, extra large LCD display and reliable membrane keypad switches.

16-3173
Accu-Charging Module
This Charging Module turns Accu-Charge Electronic Refrigerant Scale into an automatic programmable scale. This module allows the user to control the exact amount of refrigerant transferring to and from the A/C System. Battery powered 9 volt. Includes hose for tank connection, USB cord and 1/4” flare 1/2” ACME adapters.

16-3500
Portable Recycler Only
Includes 30 lb. DOT Tank (sold empty)

- Recovers and removes moisture, oil and debris from refrigerant.
- New Recovery System: offers a State-of-the-Art 1/2 hp Oil-less Compressor with a built-in High Volume Cooling Fan for fast recovery.
- Color-coded Sight Gauge identifies when Filter Dryer replacement is needed.
- Complete A/C Recovery System Unit with built in Oil Separator and Filter Dryer, 30 lb. DOT Tank and Cable, 72” Yellow and Blue Hoses, R134a Low Side Coupler and Oil Purge Bottle.

Recovery Refrigerant Tanks - R134a (sold empty)
16-3530 .....30 lbs
16-3550 .....50 lbs

16-3504
Portable Electronic Charging Stations - R134a
A lightweight, durable, steel frame cart that contains all the necessary tools to quickly and conveniently charge the A/C system. No need for different sized charging cylinders with Mastercool’s rugged die cast electronic scale. Simply place the refrigerant cylinder on the scale and charge.

Manifold Vacuum
- 2-Way Aluminum Block
- 5 CFM 110v / 60Hz

16-3080
Heater Blanket
110V. AC
(cylinder not supplied)

Vapor •Vue™ Charging Device

Protects compressor from liquid slugging when charging system.

w/R12 fittings

16-3435
Vapor•Vue™ is a visible vapor charging device that absorbs heat naturally and flashes the liquid refrigerant from the cylinder and charges into the system as a vapor. Connects to the low side of charging manifold - increases the charging rate up to 8 times faster - the liquid is controlled by adjusting the manifold valve and monitoring the vapor rate through the double sight glass.

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Charging Manifolds

16-3132.....R12/22/502 only
16-3439.....R134a only
Deluxe Aluminum 4-Way Manifold
Manifold gauge set with three
72" color-coded hoses with quick coupling valves. Four-way manifold gauges give you more control over air conditioning service. Four ball valves control refrigerant flow, vacuum and access to the system high and low sides with only a quarter turn. Four-way manifolds attach to service tools and the A/C system once. After that, control everything with a simple quarter turn of the valves.

16-3432A
Deluxe Aluminum Side Wheel Manifold - R134a only
Manifold gauge has three 72" R134a color coded hoses with quick coupling valves. Silicone dampened anti-flutter gauges, extruded aluminum manifold body with easy access hand valves attached to free floating piston valves for smooth and trouble free operation.

16-3433
Digital Manifold Set - R134a only
A plastic molded case includes a manifold with a set of 3 -72" hoses and a set of manual couplers.

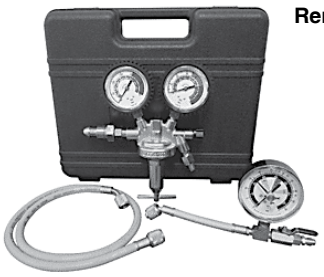
SPECIFICATIONS

- Pressure Display: PSI, IN-Hg, BAR, MPa and kg/cm^2
  (Low Side Range: 0 - 350 PSI)
  (High Side Range: 0 - 500 PSI)
- Operating Temperature: 16 - 42°C (60 - 108°)
- Battery Life: 50 hours
- Idle Mode: 400 hours
- Auto Shut-off: 15 minutes

16-3490A
Dual Aluminum Manifold Set - R12/R134a
Manifold gauge has three 96" nylon hoses, standard couplers, tank adapter, and 2 1/2" silicone anti-flutter gauges.

NITROGEN PRESSURE TESTING REGULATOR KIT

Use to pressurize the A/C system with nitrogen to locate any leaks.
Removes the need to add refrigerant, find leak and re-cycle referigerant.



- 1⁄4" SAE flare outlet port, with control valve, to keep pressure on the regulator at all times
- T-Handle for ease of pressure adjustment
- 63mm (2-1/2") gauges with guards
- High pressure gauge 4400 psig (300 bar)
- Low pressure gauge 1000 psig (70 bar)
- Nitrogen Pressure Regulator
- 48" Yellow Charging Hose
- Leak Testing Adapter
- Kit comes in a blow, molded case.

16-3174
Mastercool's new Nitrogen Presssure Regulator
Specifically designed to meet the specifications of HVAC/R and automotive A/C systems.

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Charging Manifolds *(continued)*

Replacement Compound Gauges

2-1/2" Diameter

16-3096 - R12
High Side Pressure Gauge (Red)

16-3097 - R12
Low Side Pressure Gauge (Blue)

2-1/2" Diameter

16-3496 - R134a
High Side Pressure Gauge (Red)

16-3497 - R134a
Low Side Pressure Gauge (Blue)

Charging Hose - R12

Charging Hoses with Manual (Ball Valve) Shut-Off

16-3138 Blue - **96"** Hose
16-3139 Red - **96"** Hose

16-3182 Red - **7"**
16-3184 Red - **7"** w/ 3/16" end

Charging Hose Sets

Replacement Charging Hoses with Quick Seal Fittings

16-3420
COMPLETE SET of R134a, 96" HOSES

R134a Type

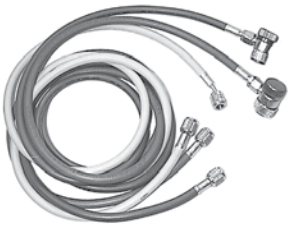
16-3403	Blue **- 60"**	**16-3404**	Red **- 60"**	**16-3405**	Yellow **- 60"**
16-3400	Blue **- 96"**	**16-3401**	Red **- 96"**	**16-3402**	Yellow **- 96"**
16-3480	Blue **- 144"**	**16-3481**	Red **- 144"**	**16-3482**	Yellow **- 144"**

Replacement Charging Hoses with Quick Seal Fittings

16-3120
COMPLETE SET of R12, 96" HOSES

R12/22/502 Type

16-3103	Blue **- 96"**				
16-3104	Red **- 96"**				
16-3105	Yellow **- 96"**				



16-3491
Manifold Conversion Hose Set R12 to R134a
Three 72" hoses with high and low side couplers. Converts R12 manifold (1/4" female ftgs.) to R134a hoses.

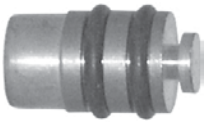
16-3492
72" Conversion Charging Hose Set R12 to R134a
Same as 16-3491 but without couplers.

TECH TIP

Use to convert R12 manifolds to R134a

16-3410
Coupler Kit

16-3511
O'Rings for Brass Manifolds *(12each)*



16-3512
Seal and Seat Assembly for Brass Manifolds

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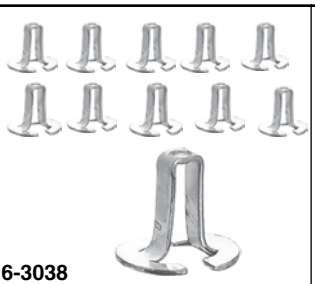
Charging Depressors & Seals

16-3014
Refrigerant Hose Depressor & Gasket, R12
1/4" Valve Depressor and Gasket
3 each per pack

16-3037
Refrigerant Hose Gasket, R12
1/4" Valve Gasket
10 per pack



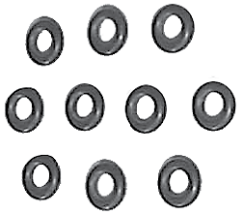
16-3038
Refrigerant Hose Depressor, R12
1/4" Valve Depressor
10 per pack

16-3053
Anti-Blow Back Seals, R12
1/4" Seal
10 per pack

16-3427 (Low Side)
16-3428 (High Side)
Coupler Repair Components
R134a Charging Hose Seals
Box of 5 each

16-3436
R134a Charging Hose Seals
For use with R134a Charging Hoses with 1/2" ACME Fittings. Fits onto Quick Seal Fitting end of hose.
Box of 10 (for yellow hose)

16-3437
R134a Charging Hose Seals
For use with R134a Charging Hoses with 1/2" ACME Fittings. Fits onto Manifold end of hose. (for red/blue and yellow hoses)
Box of 10



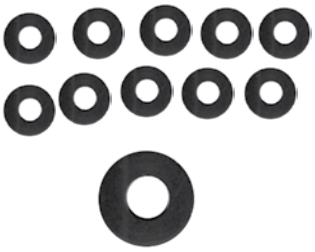
16-3438
R134a to R12 Adapter Seals
Box of 10 (Fits P/N #16-3414)

16-3441
R134a Charging Hose Seals
(14mm male end)
Box of 10 (for red/blue hoses)

Coupler Repair Components

16-3487
Red - High Side
10 O'rings for P/N #16-3423

16-3488
Blue - Low Side
10 O'rings for P/N #16-3424



16-3514
Gaskets - box of 10 pcs
(for #16-3406 - R134a Can Tap)

ROBINAIR Accessories for Charging Stations, Recovery and Recycling Equipment

16-3119
Quick Change Recycling Filter
For Older Robinair Models:
17700A, 34430, 34450, 34700 Series

16-3216
Spin-On Recycling Filter (OE Robinair)
For Robinair Models:
34134K-2K Ser., 17700-2K, 34234, 34300-2K, 34700 thru 34900 Series w/Spin-on

16-3216G
Replacement Filter
(for aftermarket model #34724)

16-3080
Heater Blanket
Aids in faster charing, 110V. AC
(cylinder not supplied)

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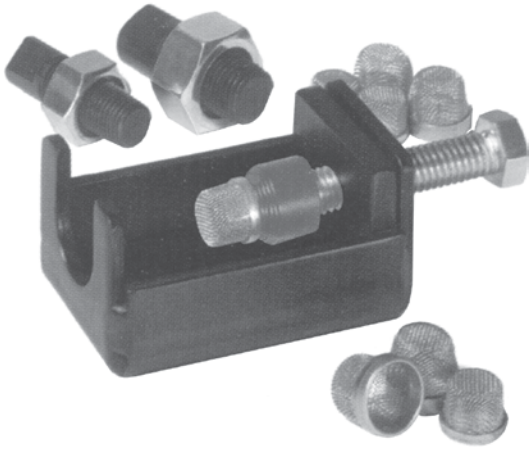
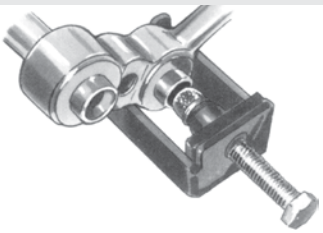
Compressor Filter Screen Guardian Kit

Prevent compressor loss with A/C COMPRESSOR GUARD

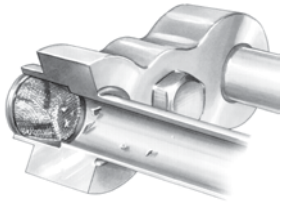
- A suction side screen safely removes debris before it harms a compressor
- Quick and easy installation
- Maintains OE configuration
- No hose cutting means no additional leak points
- Screen available in a variety of sizes





Special insertion tool seats the screen securely in the suction side

Extractor tool easily removes screen from the suction side



The suction screen prevents debris from entering the compressor

Replacement Screens

16-3206	5 Pack “A” Screens .510 O.D.
16-3207	5 Pack “B” Screens .552 O.D.
16-3208	5 Pack “C” Screens .595 O.D.

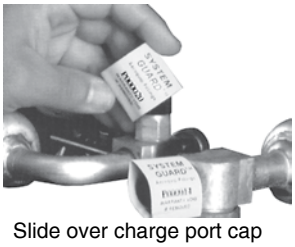
Call for Availability.
To be discontinued upon depletion of stock.

System Guard™ Sleeves

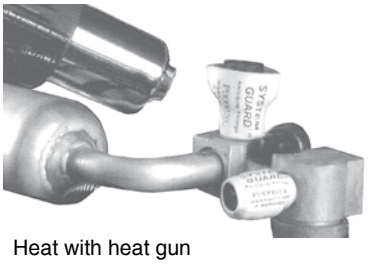
Protect your work with tamper resistant SYSTEM GUARD™

- Insures the service dealer that the customer will come back to him for service
- Assure the service dealer that his shop was the last one to work on the system
- Tamper evident seal protects your work
- Reduce unnecessary warranty work
- Prevent risk of cross-contamination

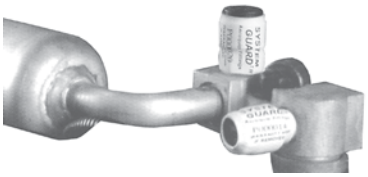
Call for Availability.
To be discontinued upon depletion of stock.



Slide over charge port cap



Heat with heat gun



System is protected

16-6025	20 Vehicle Kit:	40 Sleeves	20 labels	
16-6101	10 Vehicle Kit:	20 Sleeves	10 labels	(Aeroquip Style)
16-6102	50 Vehicle Kit:	100 Sleeves	50 lables	
16-6100	125 Vehicle Kit:	250 Sleeves	125 labels	

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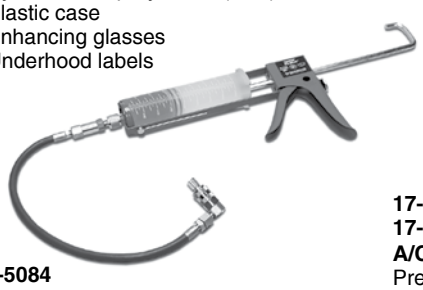
Leak Detectors, Dyes and Accessories

TRACERLINE- Leak Detection

16-5081
EZ-Shot™ Leak Detection Kit
Kit includes:
- Inspection flashlight
- Dye injection gun, hoses, couplers for R-12/R134a systems
- Dye cartridge (8oz.) universal for all a/c systems
- Dye cleaner spray bottle (8oz.)
- Plastic case
- Enhancing glasses
- Underhood labels



16-5084
EZ-Shot™ Injector
Used to inject dye cartridges.

17-5068 .....4 oz.
17-5069 .....8 oz.
A/C Dye Cartridges
Prefilled and disposable, 1 oz. die treats up to 5-8 vehicles.

16-5082
EZ-Ject™ Leak Detection Kit
Kit includes:
- Inspection flashlight
- Dye injection gun
  w/R134a hose/coupler
  w/R12 adapter/fitting
- Dye cartridge universal for all a/c systems
- Dye for all oil-based fluids(1 oz. bottle)
- Leak dye coolant/auto body (1 oz. bottle)
- Plastic case
- Enhancing glasses
- Underhood labels

16-5083
OPTIMAX Jr™
Mini flashlight reveals leaks, Compatible with all leak dyes, Ultra compact, lightweight, LED bulb, batteries included.

Stick Capsules

Tracer stick is injected into the A/C system through the low pressure valve. The A/C system is then operated to thoroughly circulate the dye in the system. When the refrigerant escapes from the system, it will leave a residual amount of dye at the point of leakage. The ultraviolet light will then locate the point of leakage revealed by a bright fluorescent glow.

Low Side Small Capsules For 1-2.9 lbs. Refrigerant Systems

17-5040	Ester R134a	.03 oz. Capsule	Qty 1 ea.
17-5060	PAG R134a	.03 oz. Capsule	Qty 1 ea.

Low Side Large Capsules For 3-4.9 lbs. Refrigerant Systems

17-5041	Ester R134a	.5 oz. Capsule	Qty 1 ea.

EZ-Ject Stick Capsules
Disposable capsules come pre-filled with a pre-measured dose of dye suited to the type and amount of refrigerant/lubricant in a system. (use multiple capsules for larger systems)

EZ-Ject Multi-Dose Dye Cartridges

17-5066C	Ester R134a	.5 oz. Cartridge	Qty 6 ea.
17-5067C	PAG R134a	.5 oz. Cartridge	Qty 6 ea.

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Leak Detectors, Dyes and Accessories

16-5015
UV - Spectacles
Provides maximum eye protection against high-intensity UV exposure. Reduces eye fatigue. Improves fluorecent contrasts. Used with fluorescent leak tracer systems.

17-5079
All-In-One Tracer Dye
For gasoline, diesel engine oils, fuel; a/trans., power steering, hydraulic and lubrication fluids.
8oz. (squeeze bottle)

17-5090
Universal A/C UV Dye
For all A/C Applications R12/R134a
8oz. (squeeze bottle)

Mastercool™ UV Leak Locator Kits

16-5059A
UV LEAK LOCATOR KIT
- FLEXnGLOW™ Compact Kit Design
- Brilliant 12V/50 Watt UV Light
- Compact Professional Dye Injector
- 10 Applications (R12/R134a Universal Concentrated Dye)
- UV Enhancing Safety Glasses
- Dye Cleaner
- R12 Adapter
- 10 Service Info. Labels
- Uses #17-5087 UV Dye

16-5080
UV LEAK LOCATOR KIT
- FLEXnGLOW™ Light
- R12 Adapter
- 10 Applications (universal concentrated dye)
- 10 Service Info. Labels
- Includes UV Enhancing Safety Glasses
- Mini Dye Injector with Hose/Low Side, R134a Coupler
- Uses #17-5087 Dye Cartridges

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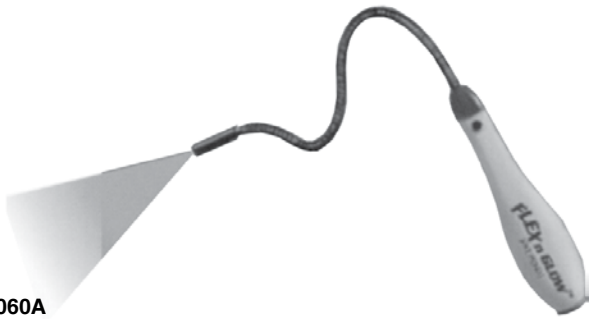
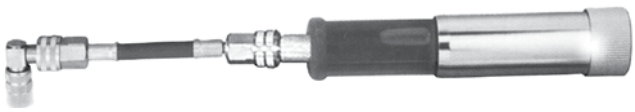
Leak Detectors, Dyes and Accessories

Mastercool™ UV Leak Locator Kits (continued)



16-5060A
Mastercool™ Compact UV Light
- FLEXnGLOW™ Flexible Wand
- Bright LED Technology
- Rugged Ergonomic Grip
- Includes UV Enhancing Safety Glasses



16-5025A
Mastercool™ Dye Injector (Cartridge Type)
Adding dye is fast and easy, simply connect the injector to the low side of the A/C System and twist the handle to the next application line. Replaceable cartridges provide 25 applications of dye that is compatible with R12/22/502 and R134a Systems. The injector hose comes complete with an R134a coupler and a drip free control valve for R12 systems.

Uses **#17-5088** dye cartridge

The INSPECTOR
This new design allows the user to perform electronic and UV leak detection all with one tool. The ultra bright UV light is built into the end of the probe allowing easy access into tight areas. Incorporating both electronic and UV technology into one unit insures that even the toughest leaks can be found.

16-3463
Mastercool™ 2-In-1 Electronic UV Leak Detector
The INSPECTOR offers:
- 6 levels of sensitivity (15 levels of detection)
- Ultra Bright UV/Blue LEDLight
- UV Safety Glasses
- Tri-Colored visual leak level indicator
- Mute function
- Detects leaks as small as 1/10 ounce (3g) per year
- Custom molded carring case

16-3520.....Replacement LED Bulb
16-3521.....Replacement Sensor Tip

16-3454
Mastercool™ Electronic Leak Detector
An Accurate And Reliable Solution To Electronic Leak Detection
- 3 levels of sensitivity (5 levels of detection)
- Visual leak level indicator
- Detects leaks as small as 1/4 ounce (7g) per year
- Custom molded carrying case

16-3521.....Replacement Sensor Tip

MASTERCOOL™ Replacement Dyes For #16-5025A, #16-5059A and #16-5080 INJECTORS

For use with #16-5059A and #16-5080 only

17-5087 .....12 c.c. bottle
R12/R134a Dye Cartridge
One bottle provides 10 applications
use 1oz. per application.

For use with #16-5025A only

17-5088 .....25 c.c. bottle
R12/R134a Dye Cartridge
One bottle provides 25 applications
use 1oz. per application.

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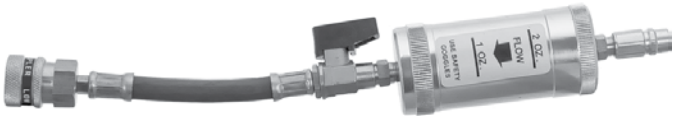
Oil Injectors

16-3134 - Oil Injector - R12
16-3474 - Oil Injector - R134a
Can be used with charging stations or manifold gauge sets to measure and dispense up to 2 oz. of oil.

16-3473 - Oil Injector - R134a
Installs on the low side of the manifold to pull refrigeration oil into the system while under vacuum.

16-3479 - Syringe Oil Injector - R134a
16-3283 - Syringe Oil Injector - R12
Use to add refrigeration oil to fully charged A/C systems-the fittings connect to the low side access port.
Fill the barrel with the amount of oil needed (levels are clearly marked), connect to the port and press the plunger.
A check valve prevents any backflow of refrigerant.
Also can be used to inject fluorescent dye.



16-3489 - Oil Injector - R134a
16-3244 - Oil Injector - R12
Add oil by allowing vacuum to pull it in after evacuation process or use refrigerant to push it in using the recharge process, measures and dispenses up to 2 oz. of oil.

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O-Rings and Gaskets

Fast Finding Index

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Freightliner, Slimline 561
GM 560
Sanden 562
Seltec / Valeo 563
T/CCI, York Style 563

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Equalizer Tube O-Rings 556
GM Captured O-Rings 556
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ASSORTMENT KITS 565

O-Rings and Gaskets

(O-ring illustrations are actual size)

O-Rings (Standard Size) HNBR Material (Green)

Size	Fitting Size	R12/R134a
1/4"	Equalizer Tube	**16-4204**
5/16"	No. 6	**16-4206**
13/32"	No. 8	**16-4208**
1/2"	No. 10	**16-4210**
5/8"	No. 12	**16-4212**

Supplied 20 per box.
Also packs of 100. Add suffix -100 (ex. 16-4106-100).

ITEM

16-4299
SINGLE JOB O-RING KIT
Kit contains:

Qty.	P/N	Description
• 1 ea.	**16-4204**	.. Capillary Tube
• 7 ea.	**16-4206**	.. #6 O-Ring
• 6 ea.	**16-4208**	.. #8 O-Ring
• 4 ea.	**16-4210**	.. #10 O-Ring
• 1 ea.	**16-4212**	.. #12 O-Ring

16-4204 **16-4206** **16-4208**

16-4210 **16-4212**

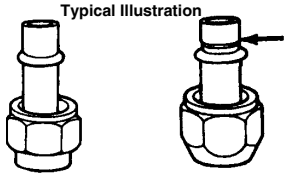
O-Rings (GM "Captured") HNBR Material (Green)

Size	Fitting Size	R12/R134a
0.312	Condenser Fitting	**16-4207**
0.364	Condenser Fitting	**16-4209**
0.549	Accumulator	**16-4211**
0.575	Block Fitting	**16-4213**

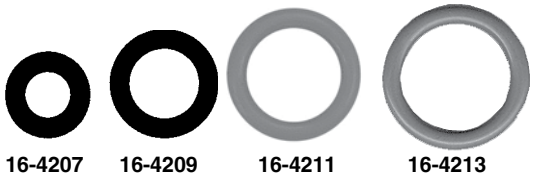
Supplied 10 per box.

Captured o-rings are thicker than standard o-rings and is held in place by a groove on the connector tubing (see illustration).
Do not substitute with other type o-rings, otherwise leakage will result.

Typical Illustration


STANDARD TYPE

CAPTURED TYPE (Contains Groove)


16-4207 **16-4209** **16-4211** **16-4213**

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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O-Rings and Gaskets

(O-ring illustrations are actual size)

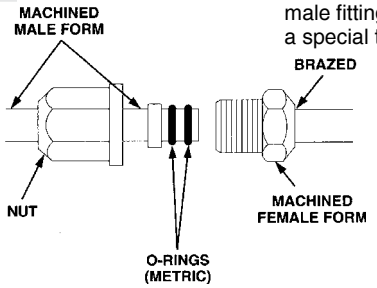
O-Rings and Gaskets for R12/22/500/502, and R134a (continued)

O-Rings (GM "Dual")

Size	R12/R134a
1/2" (No. 8)	**16-4126**
5/8" (No. 10)	**16-4127**
3/4" (No. 12)	**16-4128**

Supplied 10 per box.

Typical Illustration



Dual o-ring connections are found on some 1990 and later GM vehicles. The dual o-ring joint consists of a "machined" brazed male fitting attached to a female "machined" fitting and requires a special tool (P/N 15-3120) for separation of the joint.

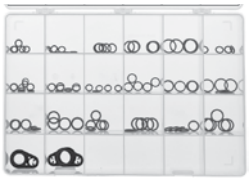
16-4126 **16-4127** **16-4128**

Metric O-Rings (HNBR)

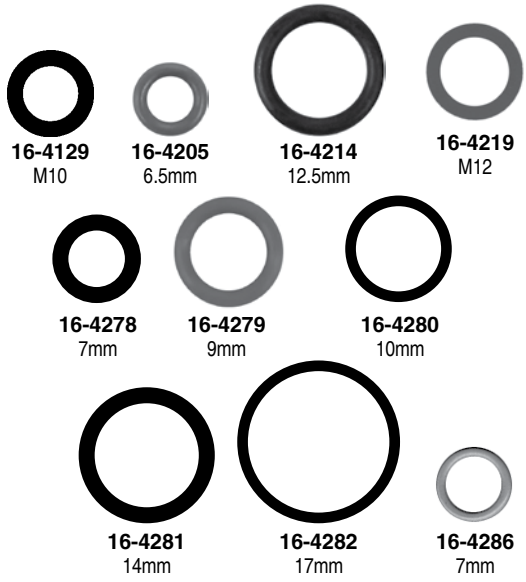
(Also See Comp. O-rings pages 558, 561, and Drier O-rings page 564)

Description	Box Qty.	Part No.
#6 Metric fittings w/M16-1.5 thread	20	**16-4278**
#6 Metric fittings w/M18-1.5 thread	10	**16-4279**
#6 - #8 Metric fittings w/M20-1.5 thread	10	**16-4280**
#10 Metric ftgs w/M22-1.5 / M24-2.0 thrds	20	**16-4281**
#12 Metric fittings w/M27-2.0 thread	20	**16-4282**
6.5mm (fits TXV #12-3046A)		**16-4205**
7mm Drier and Exp. Valve fittings	20	**16-4286**
M10 switch ports	20	**16-4129**
M12 switch ports	20	**16-4219**
12.5mm (fits TXV #12-3046A)		**16-4214**

16-4155
METRIC O-RING
ASSORTMENT KIT



ITEM



16-4129 M10 **16-4205** 6.5mm **16-4214** 12.5mm **16-4219** M12
16-4278 7mm **16-4279** 9mm **16-4280** 10mm
16-4281 14mm **16-4282** 17mm **16-4286** 7mm

FORD Garter Spring O-Rings

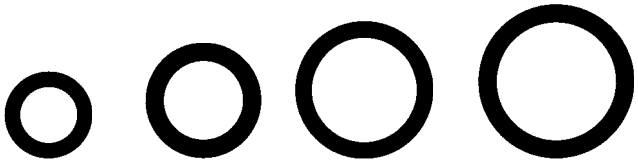
HNBR Material (Green) (R12/R134a)

(Also available P/N 16-4092 O-ring & Garter Assortment)

Size	Description	R12/R134a
No. 6	O-Ring	**16-4256**
No. 8	O-Ring	**16-4258**
No. 10	O-Ring	**16-4261**
No. 12	O-Ring	**16-4262**

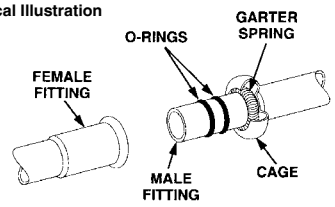
Supplied 10 per box.

Used on many late model Ford vehicles. Two (2) o-rings and one (1) garter spring required per fitting. Do not substitute any other type o-rings. A special tool is required to disassemble each size Spring Lock Couplings.



16-4256 **16-4258** **16-4261** **16-4262**

Typical Illustration



SPRING LOCK COUPLING DISCONNECTION

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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O-Rings and Gaskets (Compressors)

(O-ring illustrations are actual size)

DENSO COMPRESSORS

DENSO 6E171 (JOHN DEERE)
HNBR Material (Green)

Description		Box Qty.	Part No.
6E171	Manifold O-Rings	10	**16-4301**

16-4301

DENSO 10PA15C (JOHN DEERE, KOMATSU, CATERPILLAR)
HNBR Material (Green)

Description		Box Qty.	Part No.
10PA15C	#8 Discharge	20	**16-4151**
10PA15C	#10 Suction	20	**16-4152**

16-4151 **16-4152**

DENSO 10P08 (KUBOTA)

Description		Box Qty.	Part No.
10P08	O-Ring - Discharge and Suction	10	**16-4306**

16-4306

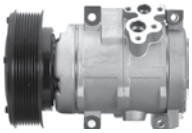
DENSO 10S15C (KOMATSU, FREIGHTLINER)
DENSO 10S17C (CATERPILLAR)

Description		Box Qty.	Part No.
10S15C	O-Ring - Suction Port	10	**16-4304** (1)
10S15C	O-Ring - Discharge Port	10	**16-4305** (1)
10S17C	O-Ring - Discharge Port (Metric)	10	**16-4287** (1)
10S17C	O-Ring - Suction Port (Metric)	10	**16-4288** (1)
10S15C,17C	Gasket - Discharge Port	10	**16-4289** (1)
10S15C,17C	Gasket - Suction Port	10	**16-4290** (1)

(1) requires one (1) each o-ring & gasket

10S15C

16-4304 **16-4305**



10S17C

16-4287 **16-4288**

DENSO 10S17C
O-RING and GASKET KITS

16-4302
Discharge Port
- 16-4287 .... Metric O-Ring (1 ea.)
- 16-4289 .... Gasket (1 ea.)

16-4303
Suction Port
- 16-4288 .... Metric O-Ring (1 ea.)
- 16-4290 .... Gasket (1 ea.)

ITEM

16-4289

16-4290

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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O-Rings and Gaskets (Compressors)

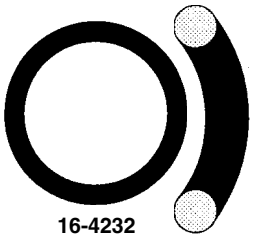
(O-ring illustrations are actual size)

FORD COMPRESSORS

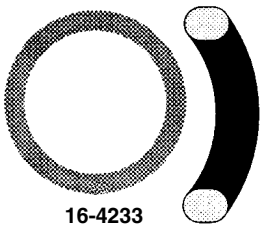
FORD FS6 O-RINGS
HNBR Material (Green) (R12/R134a)

(Replaces R12 "Red" O-Rings)

Description	Box Qty.	Part No.
O-Rings (Round)	20	**16-4232**
O-Rings (Oval)	20	**16-4233**



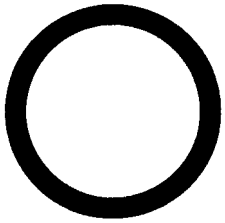
16-4232
Round



16-4233
Oval

FORD FS10 / FS15 / SCROLL
HNBR Material (Green) (R12/R134a)

Description	Box Qty.	Part No.
Service Port O-Rings	20	**16-4224**

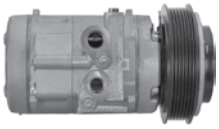


16-4224

FORD - PAD, FS18, FS20 O-RINGS
HNBR Material (Green) (R12/R134a)

Description	Box Qty.	Part No.
#8 Discharge O-Ring	10	**16-4275** (1)
#10 Suction O-Ring	10	**16-4276** (1)

(1) also requires gasket below



16-4275

16-4276

FORD - PAD, FS18, FS20 GASKETS

Description	Box Qty.	Part No.
Ford PAD - Discharge Gasket	10	**16-4291** (2)
Ford PAD - Suction Gasket	10	**16-4292** (2)

(2) also requires o-ring above

FORD - PAD, FS18, FS20
O-RING and GASKET KITS

ITEM

16-4293
Discharge Port
- 16-4275 .... #8 O-Ring (1 ea.)
- 16-4291 .... Gasket (1 ea.)

16-4294
Suction Port
- 16-4276 .... #10 O-Ring (1 ea.)
- 16-4292 .... Gasket (1 ea.)

16-4291

16-4292

NAVISTAR	Qty.	Part No.
Discharge O-Ring Gasket Kit	1 ea.	**16-4295**
#16-4248 (1 pc) and #16-4252 (1 pc)		
Suction O-Ring Gasket Kit.....	1 ea.	**16-4296**
#16-4249 (1 pc) and #16-4253 (1 pc)		

	Qty.	Part No.
Suction & Discharge O-Ring Gasket Kit	1 ea.	**16-4297**
#16-4248 (1 pc) and #16-4252 (1 pc)		
#16-4249 (1 pc) and #16-4253 (1 pc)		

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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O-Rings and Gaskets (Compressors)

(O-ring illustrations are actual size)

GENERAL MOTORS DELPHI HARRISON STYLE COMPRESSORS

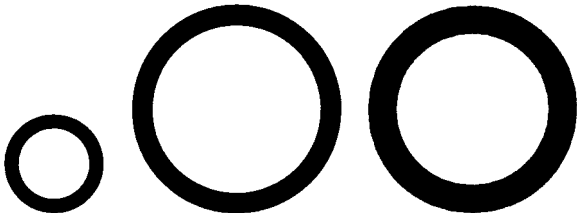
GM A6, R4, DA6, HT6, HU6

HNBR Material (Green) (R12/R134a)

Description	Box Qty.	Illust.	Part No.
Oil Plug O-Rings	20	-	**16-4222**
Press. Relief Vlv. O-Rings	20	A	**16-4222**
Service Port O-Rings	20	A, B	**16-4224**
Switch Port O-Rings	20	A, B	**16-4223**

A

B



16-4222 **16-4223** **16-4224**

GM Sealing Washers

Description	Box Qty.	Illust.	Part No.
5/8" Thin Washer	5	A, B	**16-4045** (1)
3/4" Thin Washer	5	A, B	**16-4046** (1)

(1) Some compressors may require diffenent size sealing washers. While all sizes of sealing washers are not sold separately, use of Assortment Kit #16-4096 should provide correct washers for your application (see below).

Beginning in 1992, GM began supplying both O.E. and aftermarket compressors with sealing washers. This one-piece washer consists of a flat metal washer with a molded rubber seal. They must be used only with compressors designed for sealing washers, they are not designed for use with round or oval o-ring style compressors.

16-4045
(Pilot 5/8" Thin)
1-1/32" OD

16-4046
(Pilot 3/4" Thin)
1-1/4" OD

16-4047
GM SEALING WASHER KIT
Thin Washers
- 16-4045 .... 5/8" (1 ea.)
- 16-4046 .... 3/4" (1 ea.)

ITEM

16-4096
GM SEALING WASHER ASSORTMENT KIT

ITEM

A

B

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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O-Rings and Gaskets (Compressors)

(O-ring illustrations are actual size)

FREIGHTLINER (Also fits some GM and PACCAR Applications)

FREIGHTLINER Sealing Washers (Black)

Description	O.D.	I.D.	Box Qty.	Part No.
# 6 Slimline	9/16”	5/16”	10	**16-4263**
# 8 Slimline	11/16”	7/16”	10	**16-4264**
#10 Slimline	3/4”	9/16”	10	**16-4265**

16-4263 #6 Slimline **16-4264** #8 Slimline **16-4265** #10 Slimline

STAT SEALS (Red)

Description	O.D.	I.D.	Box Qty.	Part No.
Compressor Stat (red)	1-1/8”	9/16”	10	**16-4272** (1)
# 6 Mini Stat (red)	5/8”	5/16”	10	**16-4266**
# 8 Mini Stat (red)	3/4”	7/16”	10	**16-4267**
#10 Stat (red)	15/16”	9/16”	10	**16-4271**
#12 Stat (red)	1”	11/16”	10	**16-4273**

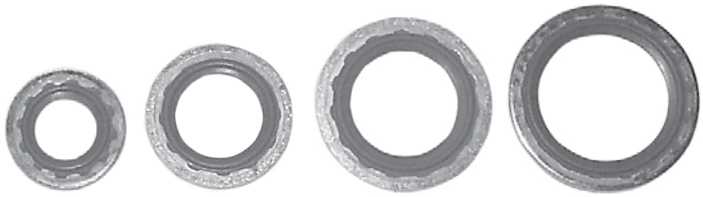
(1) used on GH style Sanden head (suct. & disch.)

16-4272 Compressor

ITEM

16-4259
STAT SEALS - SINGLE JOB SEAL KIT
Kit contains 2 pieces each:

P/N	Description
• 16-4266	#6 Stat Seal
• 16-4267	#8 Stat Seal
• 16-4271	#10 Stat Seal
• 16-4272	Compressor Seal
• 16-4273	#12 Stat Seal



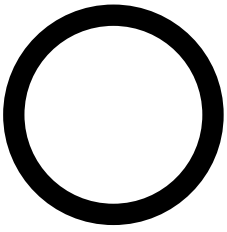
16-4266 # 6 Stat **16-4267** # 8 Stat **16-4271** # 10 Stat **16-4273** #12 Stat

16-4150
FREIGHTLINER (Later Models) -
SLIMLINE AND STAT SEAL ASSORTMENT
See page 553.

FREIGHTLINER DODGE SPRINTER

Freightliner Sprinter

Description	Box Qty.	Part No.
HNBR, Metric, 7mm Exp. Vlv., Drier, Hose-(M16)	20	**16-4278**
HNBR, Metric, M9	10	**16-4279**
HNBR, Metric, 10mm Exo, Vlv., Drier, Hose-(M20)	10	**16-4280**
HNBR, Metric, 14mm Discharge, Hose-(M14)	20	**16-4281**
HNBR, Metric, 17mm Exp. Vlv., Drier, Hose-(M17)	20	**16-4282**
Compressor (Suction)	20	**16-4283**

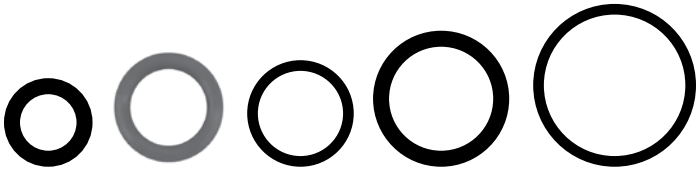


16-4283 Compressor

ITEM

16-4201
SPRINTER O-RING ASSORTMENT
Kit contains 10 pieces each:

P/N	Description
• 16-4208	#8 O-Ring
• 16-4209	#8 Captured Ftg
• 16-4213	#12 Captured Ftg
• 16-4278	Metric, 7mm
• 16-4281	Metric, 14mm
• 16-4282	Metric, 17mm
• 16-4283	Suction Hose



16-4278 7mm **16-4279** M9 **16-4280** 10mm **16-4281** 14mm **16-4282** 17mm

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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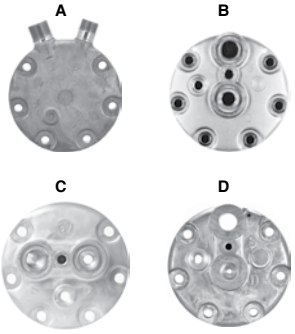
O-Rings and Gaskets (Compressors)

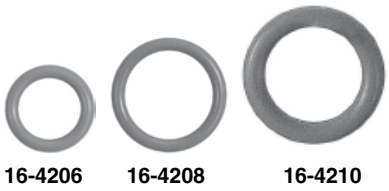
(O-ring illustrations are actual size)

SANDEN COMPRESSORS

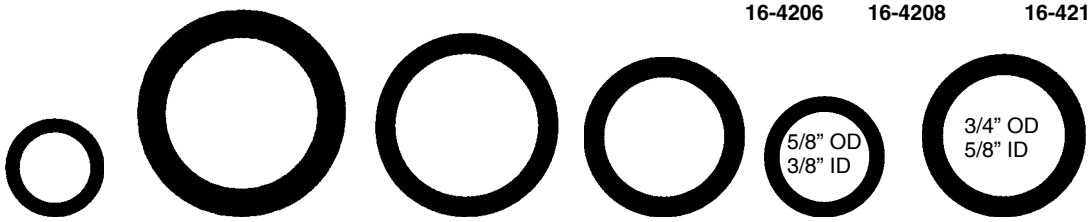
Description	Illust. No.	Box Qty.	Part No.
Discharge O-Ring #8 (exc. Tube-O head)	A	20	**16-4208**
Tube O-Ring type head, Discharge and Suction	A	20	**16-4210**
Suction O-Ring #10 (and Suct/Disch Tube-O)	A	20	**16-4210**
Discharge O-Ring (PAD Type) (Exc. GMC)	B	10	**16-4243**
Suction O-Ring (PAD Type) (Exc. GMC)	B	10	**16-4232**
Suction/Discharge O-Ring (GV head & GMC)	C	20	**16-4224**
Freightliner GH Head (Pad) (Stat Seal) (Suct/Disch)	D	10	**16-4272**
Oil Plug O-Ring, Shrader Port O-Ring	-	20	**16-4222**
P.R.V. (Mini) O-Ring	-	20	**16-4206**
Navistar (Pad) Suction o-ring (yellow) O.E. 3543728-C1	(o-ring)	10	**16-4249** *also see below
GWA Suction large flange gasket, O.E.3543882-C1	(gasket)	10	**16-4253** * also see below
Navistar (Pad) Discharge o-ring (yellow) O.E. 3543727-C1	(o-ring)	10	**16-4248** * also see below
GWA Discharge small flange gasket, O.E.3543881-C1	(gasket)	10	**16-4252** * also see below
Volvo, WV Head, suction		10	**16-4270**
Volvo WV Head, discharge		10	**16-4269**



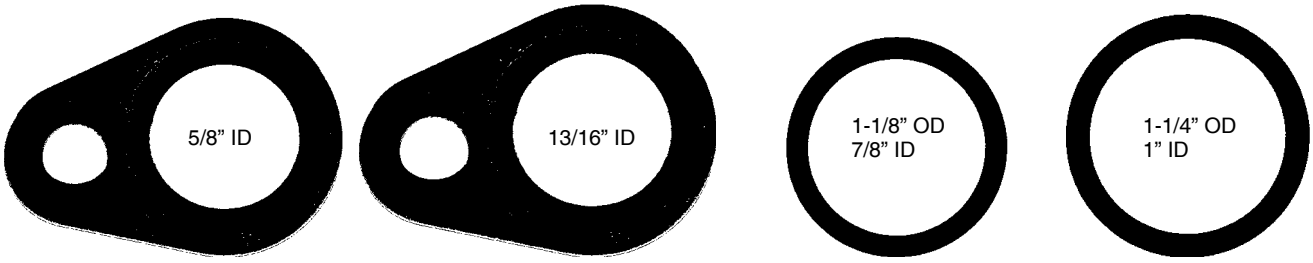
NAVISTAR *	Qty.	Part No.
*Note: Takes both gasket and o-ring to seal connection.		
Discharge O-Ring Gasket Kit ..... #16-4248 (1 pc) and #16-4252 (1 pc)	1 ea.	**16-4295**
Suction O-Ring Gasket Kit..... #16-4249 (1 pc) and #16-4253 (1 pc)	1 ea.	**16-4296**
Suction & Discharge O-Ring Gasket Kit .... #16-4248 (1 pc) and #16-4252 (1 pc) #16-4249 (1 pc) and #16-4253 (1 pc)	1 ea.	**16-4297**



16-4206 **16-4208** **16-4210**



16-4222 **16-4224** **16-4232** **16-4243** **16-4248** (yellow) **16-4249** (yellow)



16-4252 **16-4253** **16-4269** **16-4270**

ITEM

See Assortment #16-4140A and #16-4150

Our Fast Moving, Most Current Truck Model O-rings and Stat Seals Kits

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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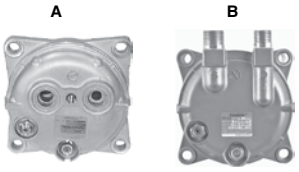
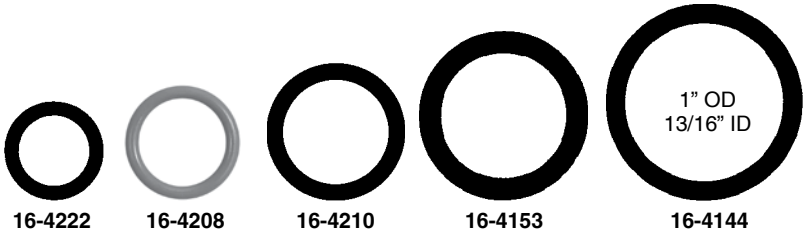
O-Rings and Gaskets (Compressors)

(O-ring illustrations are actual size)

SELTEC/VALEO (TAMA/DIESEL-KIKI) COMPRESSORS

Description	Head Type	Compr. Series	Box Qty.	Part No.
Suct./Disch. O-Ring - Bolt-on Manifold	A	TM 08/13/15/16/21	20	**16-4144**
Discharge O-Ring - Hose Fitting	B	TM 08/13/15/16/21	20	**16-4208**
Suction O-Ring - Hose Fitting	B	TM 08/13/15/16/21	20	**16-4210**
Tube-O type head - Hose Fitting (suct. & disch.)	B	TM 08/13/15/16/21	20	**16-4210**
Oil Plug O-Ring, Shrader Port O-Ring	-	TM 08/13/15/16/21	10	**16-4222**





16-4222 16-4208 16-4210 16-4153 16-4144

T/CCI COMPRESSORS (YORK STYLE) (see page 243 for head type I.D.)

T/CCI COMPRESSORS (YORK STYLE) (R12/R134a)

Description	Box Qty.	Part No.
RotalockTeflon (white) Serv. Port O-Ring	20	**16-4018** (1)
Tube-O (green) Service Port O-Ring	20	**16-4210** (1)
Slimline (#10) Service Port O-Ring	10	**16-4265** (1)
Oil Fill Plug (green) O-Ring	20	**16-4222**

(1) fits suction & discharge

16-4222 | **16-4210 Tube-O ET210** | **16-4018 Rotalock ER210** | **16-4265 Slimline ES210**

Orifice Tube O-Rings HNBR Material (Green)

Description	Box Qty.	Part No.
GM, Ford, International/Navistar, Peterbilt		
Orifice Tube O-Ring (R12/R134a)	20	**16-4250**

16-4250

Pressure Switch O-Rings HNBR Material (Green)

Application	Type	Box Qty.	Part No.
GM Pressure Cycling Switch	A	20	**16-4206**
GM Low Pressure Cut-off Switch	B	20	**16-4206**
Ford R12 Pressure Cycling Switch	A	20	**16-4206**
All M10 Hi Pressure Switch	B,C,D	10	**16-4129** (1)
All M12 thrd. Low Press. Sw.	A,B	20	**16-4219** (1)

(1) Metric

TYPE A | **TYPE B** | **TYPE C** | **TYPE D**

16-4129 | **16-4206** | **16-4219**

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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O-Rings and Sealing Washers

(O-ring illustrations are actual size)

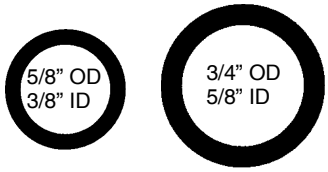
ACCUMULATOR and DRIER O-Rings HNBR Material

Description	Box Qty.	Part No.
In-line Drier Female O-Ring, for #07-3054A, 07-3057A	2	**16-4130**
Standard No.6 (5/16")	20	**16-4206**
Standard No.10 Accum. O-Ring	20	**16-4210**
Standard No.12 Accum. O-Ring	20	**16-4212**
FORD No.10 Metric Accum. O-Ring	20	**16-4261**
FORD No.12 Metric Accum. O-Ring	20	**16-4262**
FORD No.6 Pad Type Fitting O-Ring (OE-Red)	10	**16-4274**
FORD No.8 Pad Type Fitting O-Ring (OE-Red)	10	**16-4275**
FORD No.10 Pad Type Fitting O-Ring (OE-Red)	10	**16-4276**
FORD No.12 Pad Type Fitting O-Ring (OE-Red)	10	**16-4277**
GM No. 8 Captured .364" Condenser Fitting	10	**16-4209**
GM No.10 Captured .549" Accum. O-Ring	10	**16-4211**
GM Metric No.12 Accum. O-Ring	10	**16-4260**
International/Navistar, Suction o-rings (yellow)	10	**16-4249**
International/Navistar, Discharge o-rings (yellow)	10	**16-4248**

• ***Metric Drier Fittings see page 557***

16-4130 **16-4206** **16-4209** **16-4210**

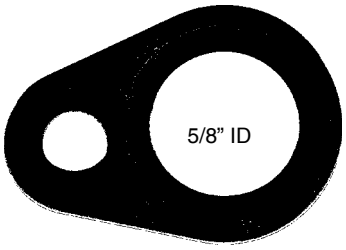
16-4211 **16-4213**



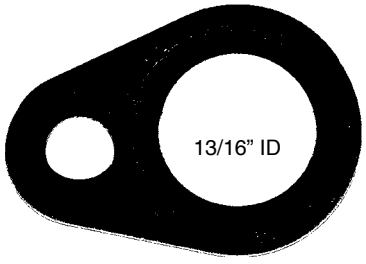
16-4248 (yellow) **16-4249** (yellow)

PAD ACCUMULATOR O-Rings HNBR Material

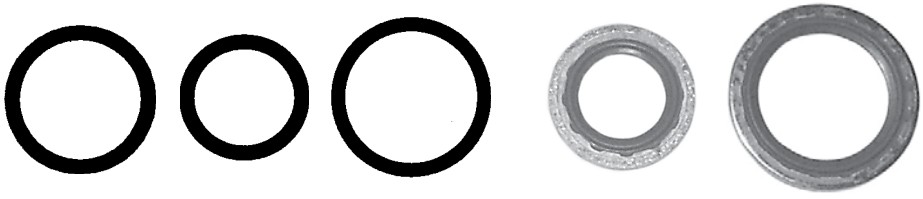
Description		Box Qty.	Part No.
CAT Pad Drier		20	**16-4206**
CAT Pad Drier (metric) 7mm		20	**16-4286**
FREIGHTLINER Pad (3" dia. Drier)		20	**16-4263**
FREIGHTLINER Pad (4" dia. Drier)		20	**16-4267**
GM Pad Accum. (Sealing Washer)		10	**16-4273**
International/Navistar Accum. (short)	(gasket)	10	**16-4252**
	(o-ring)	10	**16-4248**
International/Navistar Accum. (long)	(gasket)	10	**16-4253**
	(o-ring)	10	**16-4249**
KOMATSU Pad Drier		20	**16-4206**
SPRINTER Pad Drier (1998-2006)		20	**16-4209**
SPRINTER Pad Drier (2007-2008)		20	**16-4278**
VOLVO Cond & Evap Pad Ftg. O-Ring (yellow)		20	**16-4284**



16-4252



16-4253



16-4260 **16-4261** **16-4262** **16-4267** # 8 Stat **16-4273** #12 Stat

16-4274 **16-4275** **16-4276** **16-4277** **16-4278** **16-4284** **16-4286**

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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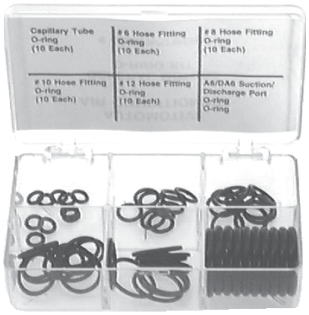
O-Ring Assortments

For all Refrigerants
(Supplied with thick o-rings)

16-4092
R12/R134a Ford Spring Lock O-Ring Kit
Garter Springs & O-rings for all size couplers used on 1981 to present Fords.

Kit Contains 10 pieces of each:

P/N	Description
16-4256	No. 6 O-Ring Metric
16-4258	No. 8 O-Ring Metric
16-4261	No. 10 O-Ring Metric
16-4262	No. 12 O-Ring Metric
NSS	No. 6 Garter Springs
NSS	No. 8 Garter Springs
NSS	No. 10 Garter Springs
NSS	No. 12 Garter Springs



A MUST!!!
For all Refrigerants

16-4093
R12/R134a Fitting O'Ring Kit
Complete O'ring assortment for standard size hoses.

Kit Contains:

P/N	Description
16-4204	No. 4 O-Ring (10 ea.)
16-4206	No. 6 O-Ring (10 ea.)
16-4208	No. 8 O-Ring (10 ea.)
16-4210	No. 10 O-ring (10 ea.)
16-4212	No. 12 O-Ring (10 ea.)
16-4224	Service Port O-Ring (5 ea.)

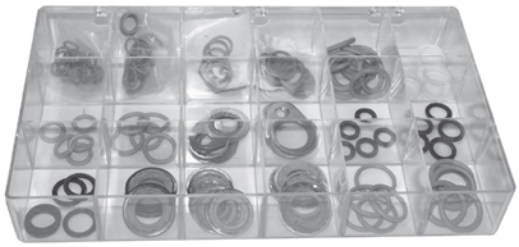
A MUST for servicing GM late model vehicles. For all types of refrigerants.

16-4095
GM Captured O-Ring &
Dual O-Ring & Washer Assortment

Kit Contains:

P/N		Description
16-4207	.312"	ID GM Condenser O-Ring
16-4209	.364"	ID GM Condenser O-Ring
16-4211	.549"	ID GM Accum. O-Ring
16-4213	.575"	ID GM Evap. O-Ring
16-4126	1/2"	GM Dual O-Ring
16-4127	5/8"	GM Dual O-Ring
16-4128	3/4"	GM Dual O-RIng
16-4250		GM Orifice Tube O-Ring

- **FREIGHTLINER**
- **NASTAR**
- **VOLVO**



ITEM

16-4140A
Most Current Truck Models, O-Ring Servicing Kit

Kit Contains:

P/N	Qty	Description
16-4206	20	No. 6 O-Ring
16-4208	20	No. 8 O-Ring
16-4210	20	No. 10 O-Ring
16-4212	10	No. 12 O-Ring
16-4224	10	GMC Compr. Suct/Disc O-Ring
16-4248	5	Navistar WG Head/Discharge O-Ring
16-4249	5	Navistar WH Head/Suction O-Ring
16-4252	2	Navistar Discharge Gasket/Small
16-4253	2	Navistar Suction Gasket/Large
16-4263	5	Freightliner Slimline #6
16-4264	5	Freightliner Slimline #8
16-4265	5	Freightliner Slimline #10
16-4266	5	Freightliner Drier Stat-Seal #6
16-4267	5	Freightliner Cond. Stat-Seal #8
16-4271	5	Freightliner Evap. Stat-Seal #10
16-4269	5	Volvo WV Head/Discharge
16-4270	5	Volvo WV Head/Suction
16-4272	5	Freightliner Compr. Suct/Disc Stat-Seal

O-Ring & Gasket Service Item Assortment Specifically for HD Truck Applications!

16-4140
Master Shop Kit
R12/R134A Compatible

Kit Contains:

P/N	Qty	Description
16-4204	7	No. 4 O-Ring
16-4206	7	No. 6 O-Ring
16-4207	7	Ford ExpVlv Seal/GM #6 "Captured"Fitting
16-4208	7	No. 8 O-Ring
16-4209	7	GM #8 "Captured" Fitting Seal
16-4210	7	No. 10 O-Ring
16-4211	7	GM #10 "Captured" Fitting Seal
16-4212	7	No. 12 O-Ring
16-4224	7	GM Compressor O-Ring
16-4018	10	York/CCI/Tecumseh Teflon O-Ring
16-3042	10	3/6" Shrader Port Caps
16-3045	3	Tecumseh Stem Caps
16-3014	10	Charging Hose Seals & Depressors
16-3016	10	Can Tap Seals (NSS)
16-3143	10	Shrader Cores
02-3100	3	GM Compressor Shaft Key
02-3101	3	York/CCI/Tecumseh Shaft Key
02-3105	6	Sanden Shaft Key
16-3158	10	Service Cap, 1/4"

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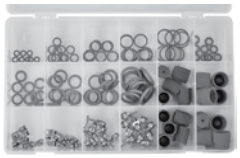
O-Ring Assortments (continued)

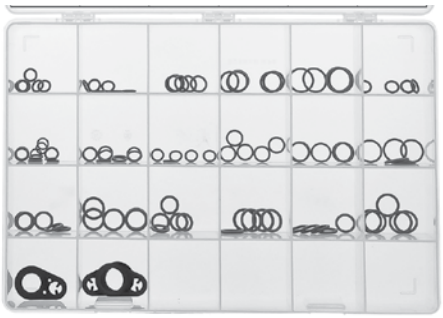


16-4142A
O'RING / SERVICE ASSORTMENT KIT
Kit Contains:

Qty	P/N	Description
• 10 ea.	**16-4204**	GM Capillary O'rings
• 10 ea.	**16-4206**	#6 Hose Fitting O'rings
• 10 ea.	**16-4208**	#8 Hose Fitting O'rings
• 10 ea.	**16-4210**	#10 Hose Fitting O'rings
• 10 ea.	**16-4212**	#12 Hose Fitting O'rings
• 10 ea.	**16-4207**	Ford Comb O'rings
• 10 ea.	**16-4209**	Captured O'rings #8
• 10 ea.	**16-4211**	Captured O'rings #10
• 10 ea.	**16-4213**	Captured O'rings #12
• 10 ea.	**16-4224**	GMC Comp Port O'rings
• 10 ea.	**16-3145**	A/C Service Caps
• 10 ea.	**16-3146**	A/C Service Caps
• 10 ea.	**16-3049**	GM Valve Cores
• 10 ea.	**16-3043**	Repl. Valve Cores
• 10 ea.	**16-3149**	Eaton 13mm M8 Vlv.Cores
• 10 ea.	**16-3148**	Eaten 16mm M10 Vlv.Cores

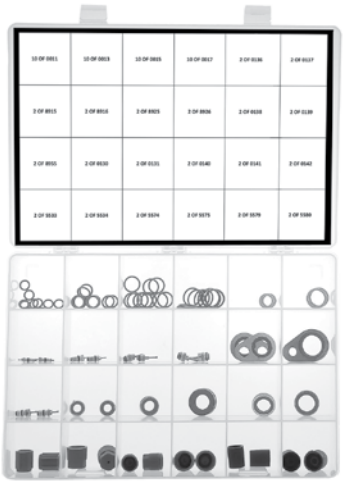
16-4150
FREIGHTLINER (Later Models) -
SLIMLINE AND STAT SEAL ASSORTMENT
Kit contains 10 pieces of each:

P/N	Description
16-4263	Slimline Seal #6
16-4264	Slimline Seal #8
16-4265	Slimline Seal #10
16-4266	Stat Seal #6
16-4267	Stat Seal #8
16-4271	Stat Seal #10 (evaporator)
16-4272	Stat Seal (compressor)
16-4273	Stat Seal #12



16-4155
METRIC O'RING KIT
Kit contains the following parts:

QTY	P/N	DESCRIPTION
• 5 ea.	**16-4278**	#6 Metric Ftg., M16-1.5 Thread
• 5 ea.	**16-4279**	#6 Metric Ftg., M18-1.5 Thread
• 5 ea.	**16-4280**	#6-#8 Metric Ftg., M20-1.5 Thread
• 5 ea.	**16-4281**	#10 Metric Ftg., M22-1.5/M24-2.0 Thread
• 5 ea.	**16-4282**	#12 Metric Ftg., M27-2.0 Thread
• 5 ea.	**16-4286**	7mm Drier and Expansion Vlv Ftgs.
• 10 ea.	**16-4129**	M10-1.25 Switch Ports
• 10 ea.	**16-4219**	M12-1.5 Switch Ports
• 5 ea.	**15-4256**	#6 Metric, Ford Springlock Ftg.
• 5 ea.	**16-4258**	#8 Metric, Ford Springlock Ftg.
• 5 ea.	**16-4261**	#10 Metric, Ford Springlock Ftg.
• 5 ea.	**16-4262**	#12 Metric, Ford Springlock Ftg.
• 5 ea.	**16-4151**	#8 Denso 10PA15C Compr Discharge Ftg.
• 5 ea.	**16-4152**	#10 Denso 10PA15C Compr Suction Ftg.
• 5 ea.	**16-4305**	#8 Denso 10S15C Compr Discharge Ftg.
• 5 ea.	**16-4304**	#10 Denso 10S15C Compr Suction Ftg.
• 2 ea.	**16-4287**	#8 Denso 10S17C Compr Discharge O'ring
• 2 ea.	**16-4288**	#10 Denso 10S17C Compr Suction O'ring
• 2 ea.	**16-4289**	#8 Denso 10S17C Compr Discharge Gasket
• 2 ea.	**16-4290**	#10 Denso 10S17C Compr Suction Gasket



16-4156
O'RING and SEALING WASHER
MASTER DELUXE ASSORTMENT
Kit contains the following parts:

Qty.	P/N	Description
• 2 ea.	**16-3143**	1/4" Schrader Vlv
• 2 ea.	**16-3145**	13mm Cap
• 2 ea.	**16-3146**	16mm Cap
• 2 ea.	**16-3147**	M6 Schrader Vlv
• 2 ea.	**16-3148**	M10 Schrader Vlv
• 2 ea.	**16-3149**	M8 Eaton Vlv
• 2 ea.	**16-3150**	M8 High Flow Vlv
• 2 ea.	**16-3443**	13mm JRA Cap
• 2 ea.	**16-3444**	16mm JRA Cap
• 2 ea.	**16-3445**	13mm Eaton Cap
• 2 ea.	**16-3446**	16mm Eaton Cap
• 10 ea.	**16-4206**	#6 O'ring
• 10 ea.	**16-4208**	#8 O'ring

Qty.	P/N	Description
• 10 ea.	**16-4210**	#10 O'ring
• 10 ea.	**16-4212**	#12 O'ring
• 2 ea.	**16-4248**	Discharge O'ring
• 2 ea.	**16-4249**	Suction O'ring
• 2 ea.	**16-4252**	Gasket/Small
• 2 ea.	**16-4253**	Gasket/Large
• 2 ea.	**16-4266**	#6 Stat Seal
• 2 ea.	**16-4267**	#8 Stat Seal
• 2 ea.	**16-4271**	#10 Stat Seal (evap)
• 2 ea.	**16-4272**	Stat Seal (compr)
• 2 ea.	**16-4273**	#12 Stat Seal

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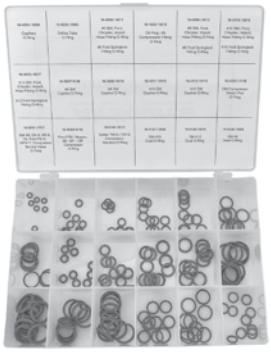
O-Ring Assortments *(continued)*

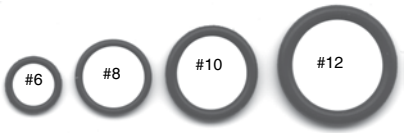


16-4200
UNIVERSAL O'RING ASSORTMENT
HNBR Material R12 / R134a Compatible
Kit contains 10 pieces of each:

P/N	Description
16-4126	GM #8 Dual O-Ring
16-4127	GM #10 Dual O-Ring
16-4128	GM #12 Fitting / ATCO #10 Compr. Fitting Seal
16-4144	Seltec TM15,TM16 Compr Manifold O-Ring
16-4204	GM Capillary Tube Seal
16-4206	#6 Hose Fitting Seal
16-4207	Ford ExpVlv Seal/GM #6 "Captured"Fitting Seal
16-4208	#8 Hose Fitting Seal/V5 Control Valve Seal
16-4209	GM #8 "Captured" Fitting Seal
16-4210	#10 Hose Fitting Seal
16-4211	GM #10 "Captured" Fitting Seal
16-4212	#12 Hose Fitting Seal/V5 Control Valve Seal
16-4213	GM Carbon Seal/GM #12 "Captured" Fitting
16-4222	GM Pressure Valve Seal
16-4223	GM PressureSwitch Port
16-4224	GM Suc./Disc. Manifold Seal
16-4233	Ford Manifold Seal (oval cross section)
16-4250	#8 Hose Fitting /Drier

16-4201
SPRINTER DELIVERY VAN
O-RING ASSORTMENT
Kit contains 10 pieces each:

P/N	Description
• **16-4208**	#8 O-Ring
• **16-4209**	#8 Captured Fitting
• **16-4213**	#12 Captured Fitting
• **16-4278**	Metric, 7mm
• **16-4281**	Metric, 14mm
• **16-4282**	Metric, 17mm
• **16-4283**	Suction Hose



16-4000E
E-Z CLIP O-RING ASSORTMENT KIT
Kit contains 10 pieces each:
#6, #8, #10, #12

O-Rings for E-Z Clip Fittings (hose end)

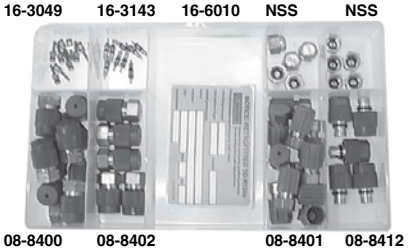
P/N	Qty.	Description
16-4101E	10	#6
16-4102E	10	#8
16-4103E	10	#10
16-4104E	10	#12
16-4105E	10	#16

Each Fitting Requires Two (2) O-rings

RetroFit Assortment Kits

16-6005
RetroFit Port Adapter Assortment (Small)
Includes Adapters and Disabler Caps.

P/N	Qty.	Description
08-8400	2	3/16" x 16mm Adapter
08-8401	2	1/4" x 13mm Adapter
08-8402	2	1/4" x 16mm Adapter
08-8490	2	3/16" x 16mm Adapter - 90°
08-8491	2	1/4" x 13mm Adapter - 90°
08-8492	2	1/4" x 16mm Adapter - 90°
NSS		3/16" Disabler Cap
NSS		1/4" Disabler Cap



16-6020
R134a Steel RetroFit Starter Assortment
Complete steel fitting assortment, including retrofit labels, schrader cores and port eliminator caps.

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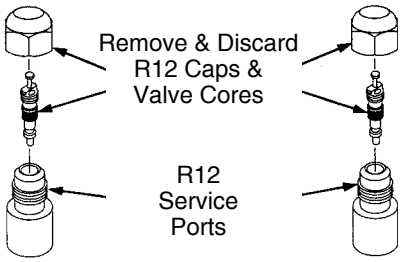
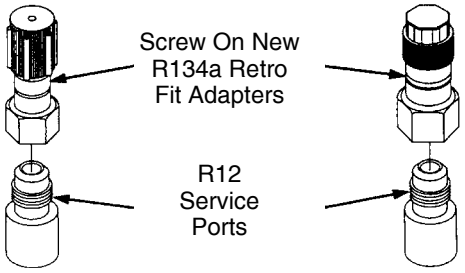
RetroFit Charging Adapters and Fittings





When retrofitting R12 systems to R134a, these fittings attach directly over the old R12 charging ports.
Includes threadlock to prevent removal and new R134a schrader valve.

Steel

Weld-on RetroFit Fittings

08-8310S
Weld-on Steel M10 Port

Steel

Weld-on RetroFit Fittings

08-8313S 13mm
08-8316S 16mm
Includes Valve Core and Cap

Steel

08-8400
3/16" (3/8"-24) to 16mm, High Side
Red Cap - Includes Valve Core,
Neoprene O'Ring, Threadlock.
(Notch in nut designates 3/8")
uses #16-3451, M12x1.5 caps

Steel

08-8401
1/4" (7/16"-20) to 13mm, Low Side
Blue Cap - Includes Valve Core,
Neoprene O'Ring, Threadlock.
uses #16-3450, M10x1.25 caps

Steel

08-8402
1/4" (7/16"-20) to 16mm, High Side
Red Cap - Includes Valve Core,
Neoprene O'Ring, Threadlock.

Aluminum

08-8412 .....16mm
GM Primary RetroFit Adapter
Male Thread-12mm x 1.5

08-8432 .....16mm (aluminum)

08-8435 .....13mm (steel)

OEM High Flow Port
Includes Valve Core and Cap

Aluminum

08-8437
Low Side Primary Seal
Female Thread-10mm x 1.25

Aluminum

08-8438 .....16mm
Primary Seal Fitting
Male Thread-12mm x 1.5

Steel

08-8490
3/16" (3/8"-24) to 16mm, High Side
Red Cap - Includes Valve Core,
Neoprene O'Ring, Threadlock.
(Notch in nut designates 3/8")

Steel

08-8491
1/4" (7/16"-20) to 13mm, Low Side
Blue Cap - Includes Valve Core,
Neoprene O'Ring, Threadlock.

Steel

08-8492
1/4" (7/16"-20) to16mm, High Side
Red Cap - Includes Valve Core,
Neoprene O'Ring, Threadlock.

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Service Caps *(sold 10 per box)*

16-3042 .....3/16"
16-3158 .....1/4"
Service Cap
(black plastic)

16-3045
Backseat
Service Vlv Cap
(black plastic)

16-3450
Switch Port Caps
M10-1.25

16-3451
Switch Port Caps
M12-1.5

16-3468
M9-1.0 Port Caps
Off road applications
Low Side (light blue)

16-3469
M10-1.25 Port Caps
Off road applications
High Side (light blue)

R134a Service Caps *(sold 10 per box)*

16-3145
10 per box

Color:
Black
Blue with L

Applications:
*Bridgeport Piedmont OEM R134a 13mm Port
*Bridgeport Piedmont RetroFit 13mm Adapter
*Refrigeration Sales R134a RetroFit 13mm Adapter

16-3443
10 per box

Color:
Blue with L

Applications:
*Bridgeport Piedmont OEM R134a 13mm JRA Port

16-3146
10 per box

Color:
Black
Red with H

Applications:
*Bridgeport Piedmont OEM R134a 16mm Port
*Bridgeport Piedmont RetroFit 16mm Adapter
*Refrigeration Sales R134a RetroFit 16mm Adapter

16-3444
10 per box

Color:
Red with H

Applications:
*Bridgeport Piedmont OEM R134a 16mm JRA Port

16-3156
10 per box

Color:
Blue

Applications:
*Aeroquip OEM R134a 13mm Port
*Aeroquip Piedmont RetroFit 13mm Adapter
*Frig-C Low Side R134a RetroFit Adapter

16-3445
10 per box

Color:
Black

Applications: E-Z Clip
*Eaton OEM SSV High Flow R134a 13mm Port
*Refrigeration Sales CCI Service Valve w/Eaton SSV High Flow 13mm Port

16-3157
10 per box

Color:
Red

Applications:
*Aeroquip OEM R134a 16mm Port
*Aeroquip Piedmont RetroFit 16mm Adapter
*Frig-C High Side R134a RetroFit Adapter

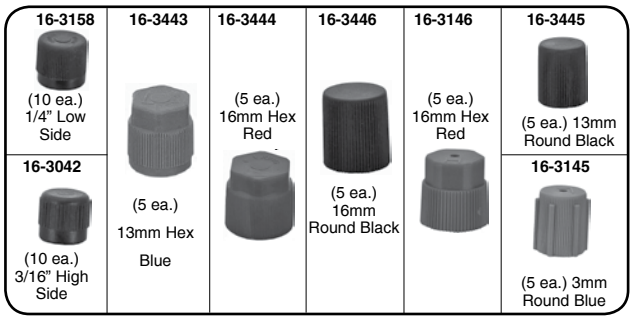
16-3446
10 per box

Color:
Black

Applications: E-Z Clip
*Eaton OEM SSV High Flow R134a 16mm Port
*Refrigeration Sales CCI Service Valve w/Eaton SSV High Flow 16mm Port

Bridgeport Piedmont (Schrader Bridgeport) OEM ports are typically found on some GM and Ford Vehicles.
Eaton OEM ports are typically found on some heavy duty trucks and equipment and some Ford vehicles.
Aeroquip OEM ports are typically found on Chrysler, Ford heavy duty trucks, Navistar, John Deere, some GM & Ford vehicles, and numerous import vehicles.

16-4143
Complete Charging Port Cap Kit for R*12/R134a*



16-4148
***R12/R134a* Service Cap Kit**
Kit Includes:

P/N	Qty	Description
16-3042	...10	3/16" High Side
16-3045	....5	Backseat
16-3145	...10	13mm Bridgeport
16-3146	...10	16mm Bridgeport
16-3156	...10	13mm Aeroquip
16-3157	...10	16mm Aeroquip
16-3158	...10	1/4" Low Side
16-3443	...10	13mm JRA, Hex
16-3444	...10	16mm JRA, Hex
16-3445	....5	13mm EZ Clip
16-3446	....5	16mm EZ Clip

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Schrader Valve Cores *(sold 10 per box)*

GMC only

16-3049
1/4"- High Flow Large Bore Valve Core
Service Port
OAL 3/4" top to bottom
1/4" OD

Universal Standard Size

16-3143
1/4"- Replacement Valve Core R12/R134a
Service Port
OAL 3/4" top to bottom
7/32" OD

16-3147
M6 - Valve Core
High Flow, *R134a*
Japanese JRA
OAL 3/4" top to bottom
9/32" OD

E-Z Clip and High Flow

16-3148
16-3148E (OE, E-Z Clip)
M10 - Eaton 16mm SSV
High Flow High Side
Service Port
OAL 7/8" top to bottom
11/32" OD

E-Z Clip and High Flow

16-3149
16-3149E (OE, E-Z Clip)
M8 - Eaton 13mm SSV
High Flow Low Side
Service Port
OAL 7/8" top to bottom
1/4" OD

Volvo

16-3150
M8 - High Flow Schrader Valve Core
M24 x 1.0 Thread
OD at Base 7/32"
OAL 7/8" top to bottom
9/32" OD

16-3151
Sprinter Van Valve Core
OAL 1-1/16" top to bottom
1/4" OD

Schrader Core Removers, Installers and Tools

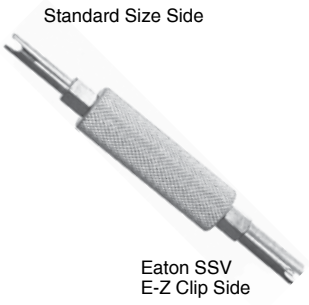
15-3011
Schrader Tool - R12
With storage for extra cores.
Includes 6 cores.

15-3147 .....Low Side - R134a
15-3148 .....High Side - R134a
Octagon Service Port Sockets
Specially designed thin wall sockets for eight sided retrofit adapter.

16-3121
Universal Valve Core Remover
Double ended for Standard and GM R12 Large Bore Valve Cores.

16-3122
Schrader Valve Rethreading Tool - R12
Cleans and Deburs O.E. Schrader Ports

16-3426
R134a Service Port Reamer Tool
Eliminates burrs which nick and cut coupler o'rings causing them to leak.



16-3434
R134a Heavy Duty Core Removal Tool

16-3476
Universal Large Bore Remover
used on Standard R12/R134a, and JRA/EATON Large Bore R134a Valve Cores.

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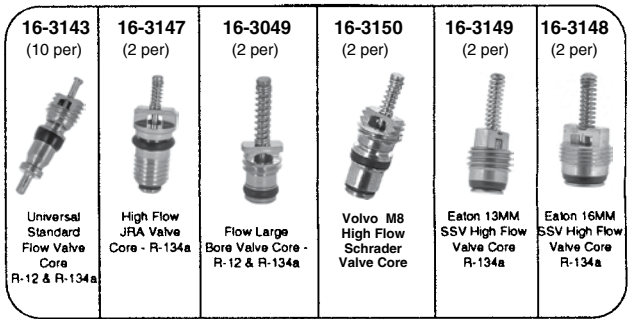
Schrader Core Assortments

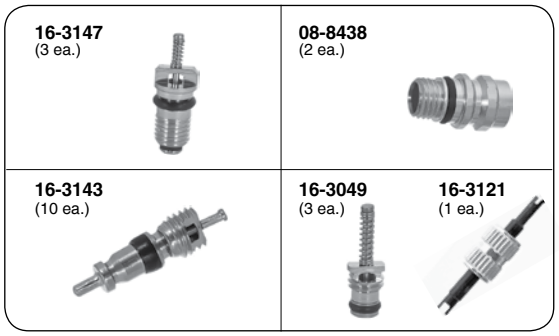
16-3201
Shrader Core Assortment Kit
For R12/R134a A/C Systems

Kit Includes:

P/N	Qty	Description
16-3049	....5	GM Large Bore Cores
16-3143	...20	Std. R12/R134a Cores
16-3147	...10	JRA High Flow Cores
16-3148	....5	Eaton SSV High Flow Cores
16-3149	....5	Eaton SSV High Flow Cores



16-3203
***R12/R134a* Schrader Valve Core Kit**



16-3204
R134a Valve Core Repair Assortment Kit

Valve Core Service Tool Kits

16-3188
Universal Master Kit - R12/R134a (incl. Eaton M8 & M10)

- Valve Assembly
- R134a high side 16mm connector
- R134a low side 13mm connector
- 1/4” FL swivel connector
- Standard valve core remover/installer assembly
- GM large bore valve core remover/installer assembly
- JRA R134a valve core remover/installer
- Eaton R134a low side valve core remover/installer
- Eaton R134a high side valve core remover/installer
- Adapter 1/4”-M x 3/16”-F high side GM/Ford
- Adapter 1/4”-M x 1/8”-F high side Ford

16-3189
Eaton (M8 & M10) Valve Core Kit - R134a

- Valve Assembly
- Eaton R134a low side valve core remover/installer
- Eaton R134a high side valve core remover/installer
- R134a high side 16mm connector
- R134a low side 13mm connector

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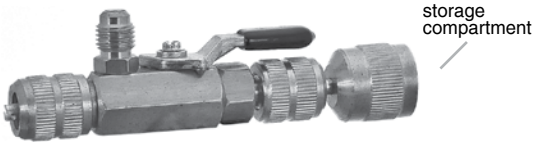
Valve Core Service Tools

These durable and versatile tools perform three time saving service tasks:

1. Removal and replacement of service valve cores without losing system charge.
2. Temporary removal of valve cores for quicker, more complete recovery, evacuation, and recharge.
3. Calculation of superheat with excellent accuracy by reading refrigerant temperature and pressure from the same location in the system.

16-3125
GM Large Bore Valve Core Remover/Installer
Includes 1/4" x 3/16" adapter and 1/4" x 1/8" adapter.



16-3137
Valve Core Remover/Installer with Access Port
Temporary removal of service valve core eliminates the restriction it creates and provides full flow of refrigerant and vacuum during recovery, evacuation, and recharge saving valuable service time.

16-3166
Superheat Determination Set
Special Valve core remover/installer adapter allows replacement of damaged or faulty service valve cores without discharging the system. Valve replacement no longer requires time consuming refrigerant recovery. Calculation of superheat with excellent accuracy by reading refrigerant temperature and pressure from the same location in the system.

16-3466
R134a Valve Core Remover/Installer
Includes special R134a service port adapters.
NOTE: Wil not fit Eaton HiFlow type ports.

16-3125T
Replacement Tip and Pin
for P/N's 16-3125 and 16-3137

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Vacuum Pumps

Part No.	No. of Stages	Free Air Displacement	Ultimate Vacuum	Pump Speed	Motor	Elec. Specs.	Weight
16-3425A	1	1.5 cfm	50 microns	1/6 hp	3450 rpm	110V/60 hz	12 lbs.
16-3422A		1.3 cfm	Air Operated - Pulls 29" of vacuum at sea level.				
16-3464A	2	5 cfm	25 microns	1/3 hp	1725 rpm	110V/60 hz	32 lbs.
16-3069	2	7.5 cfm	25 microns	1/2 hp	1725 rpm	110V/60 hz	34 lbs.

16-3422A
Air Operated Light Duty Vacuum Pump
R12/R134a

- Fast - Pulls 29" of vacuum at sea level.
- Air operated
- No oil required
- Maintenance free.
- Housed in sturdy, metal case.
- Ideal for service truck use.

Air Disp. .....1.3 CFM
Air Operated.....Requires 4.2 CFM/90 PSI shop air
Intake Fitting .....1/2" ACME; 1/4" Flare

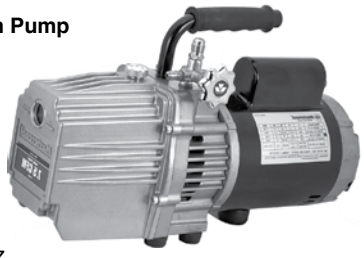
16-3425A
1.5 CFM Single Stage Vacuum Pump
Multi-refrigerant compatible.
Works with R12 & R134a.

Air Disp. .....1.5 CFM
Drive.....Direct
Motor Size.....1/6HP
Voltage.....110-115V
Micron Rating.....50 Microns
Oil Capacity.....8 oz.
Intake Fitting .....1/2" ACME (R134a); 1/4" Flare (R12)

16-3464A
5 CFM Two Stage Vacuum Pump
Multi-refrigerant compatible.
Works with R12 & R134a.

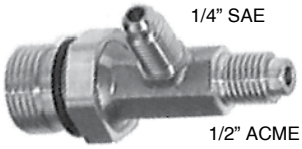
Air Disp. .....5 CFM
Motor Size.....1/3 HP
Voltage.....115V 60 Hz
Micron Rating.....25 Microns
Oil Capacity.....13.5 oz. (399ml)
Intake Fitting .....1/2" ACME (R134a);
1/4"Flare (R12), 3/8" Flare (R12)

16-3069
7.5 CFM Two Stage Vacuum Pump
Multi-refrigerant compatible.
Works with R12 & R134a.

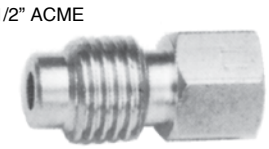


Air Disp. .....7.5 CFM
Motor Size.....1/2 HP
Voltage.....115V 60 Hz
Micron Rating.....25 Microns
Oil Capacity.....22 oz.
Intake Fitting .....1/2" ACME (R134a);
1/4"Flare (R12), 3/8" Flare (R12)

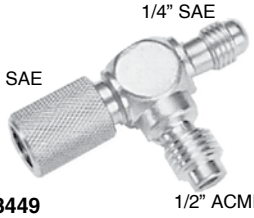
Vacuum Pump Conversion Fittings



16-3415
Retro-Adapter
Convert R12 pumps to R134a



16-3414
Retro-Adapter
Convert R12 pumps to R134a



16-3449
"T" Style Retro-Adapter
Convert R12 pumps to R134a

Vacuum Pump Oil

17-3082 .....Quart
17-3083 .....Gallon

Vacuum Pump Oil
Promotes internal sealing for good vacuum and absorbs unwanted vapor from evacuated units.
Regular oil changes promote longer vacuum pump life.

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